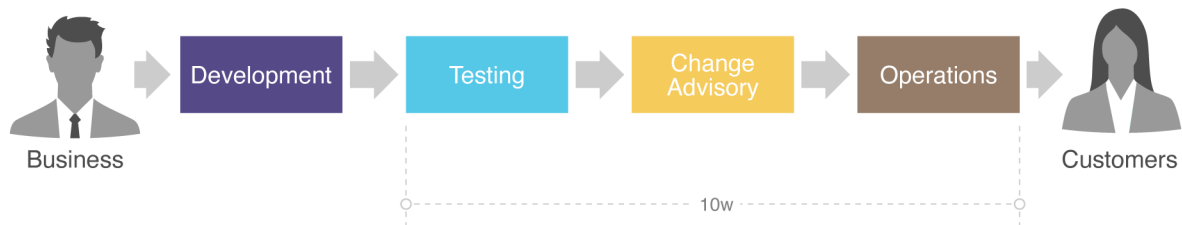


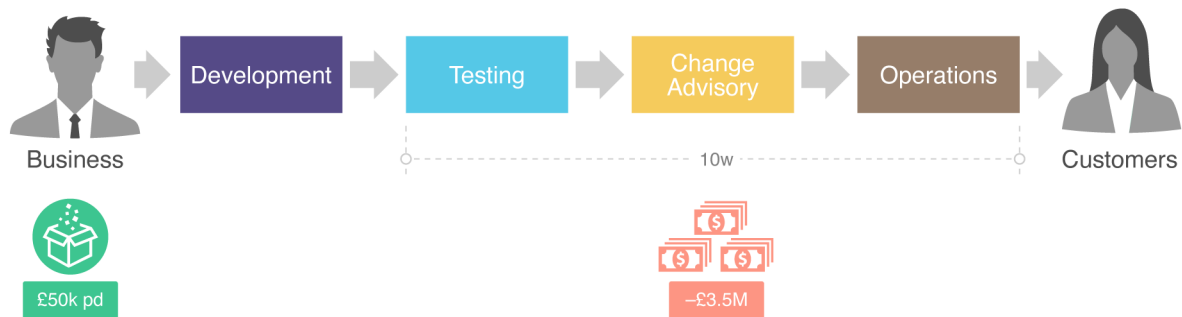
Workbook

1. Adopting Continuous Delivery

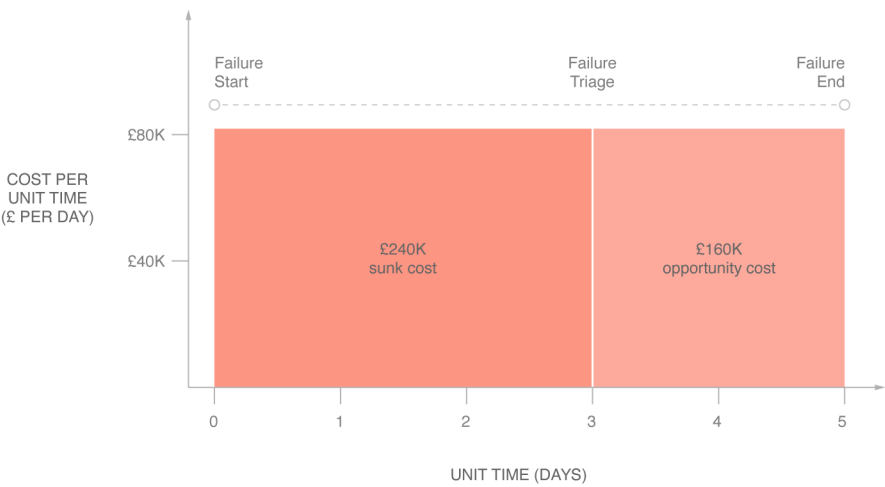
TOYVILLE — LEAD TIME



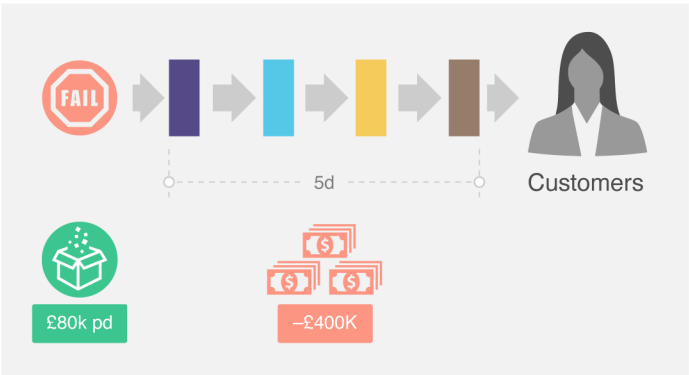
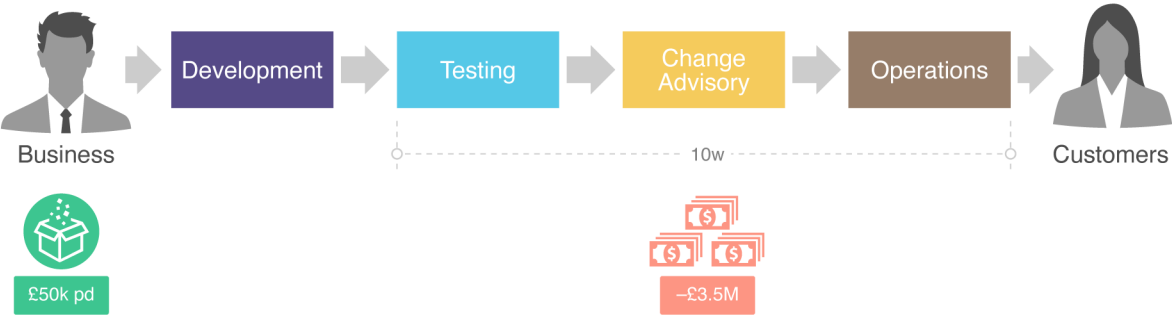
TOYVILLE — OPPORTUNITY COST



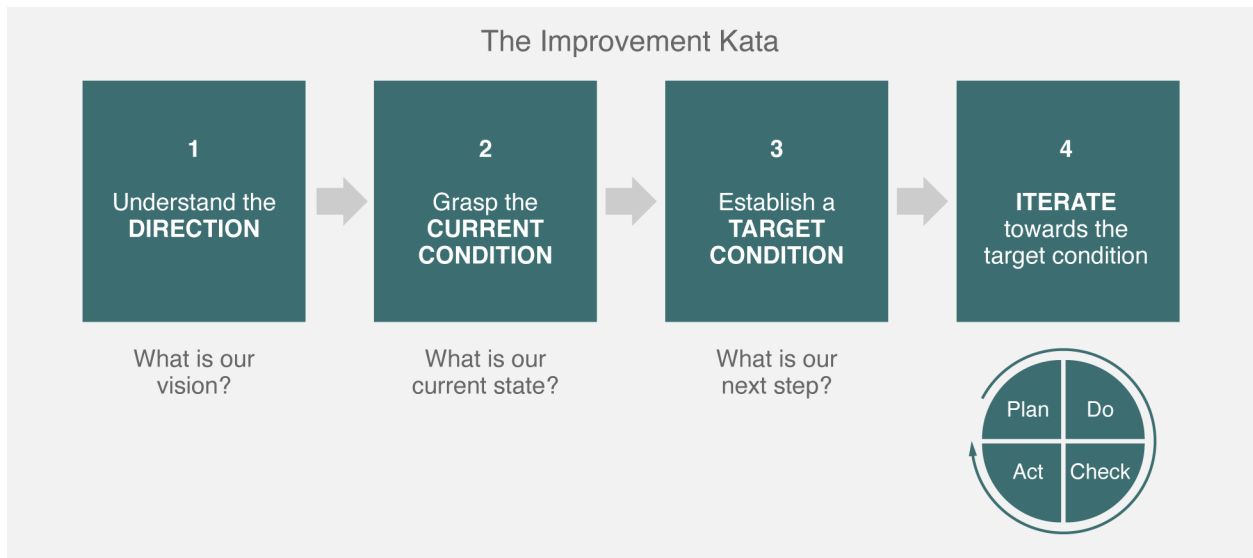
TOYVILLE — REGISTRATION FAILURE COST



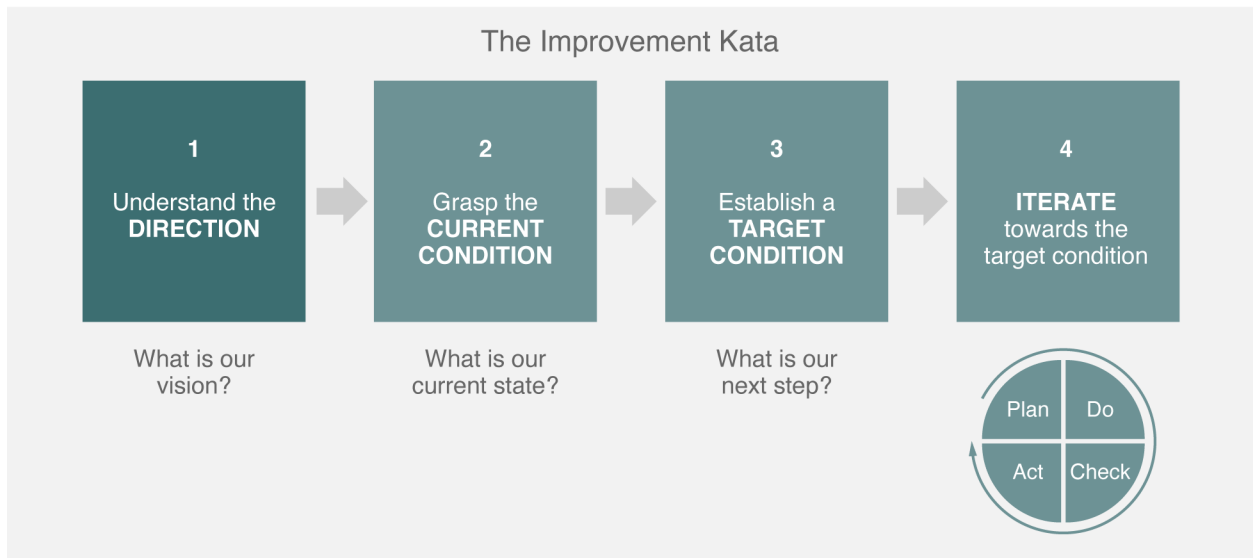
TOYVILLE — DUAL VALUE STREAMS



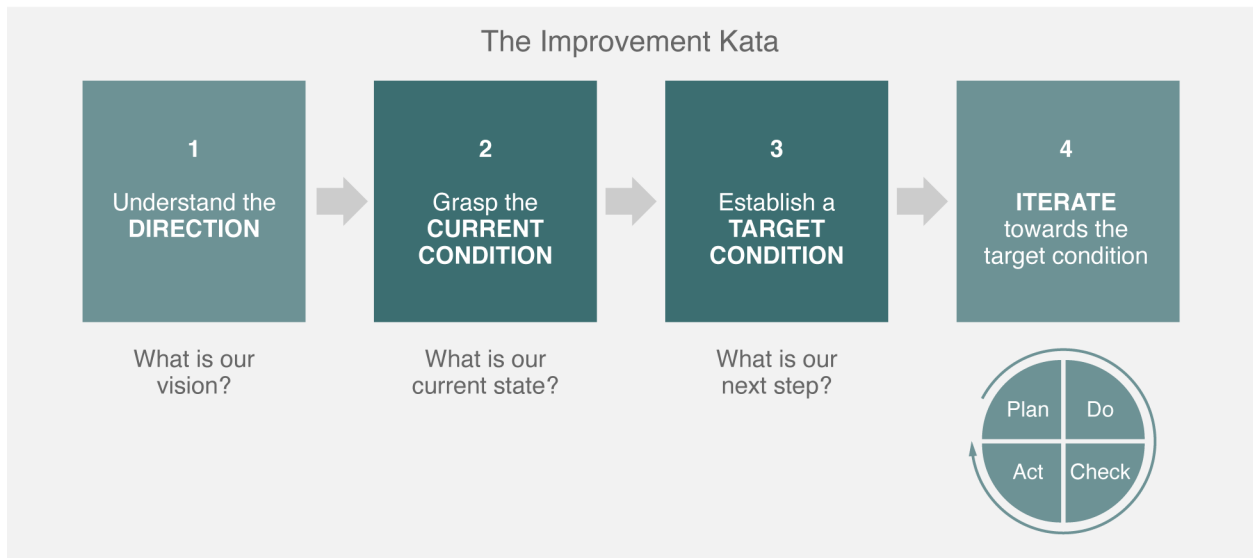
THE IMPROVEMENT KATA



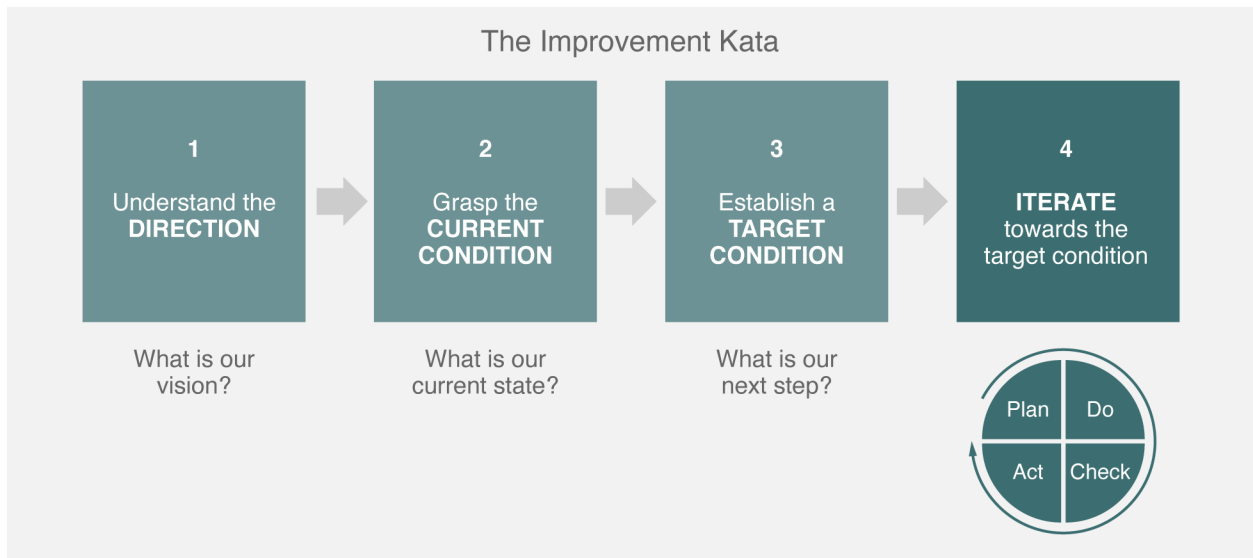
THE DIRECTION FOR AN IMPROVEMENT KATA



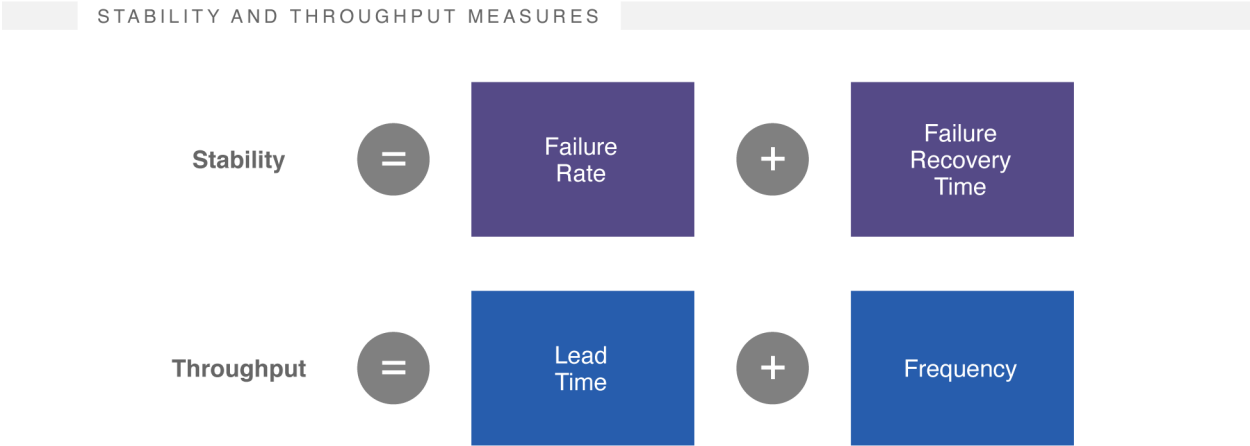
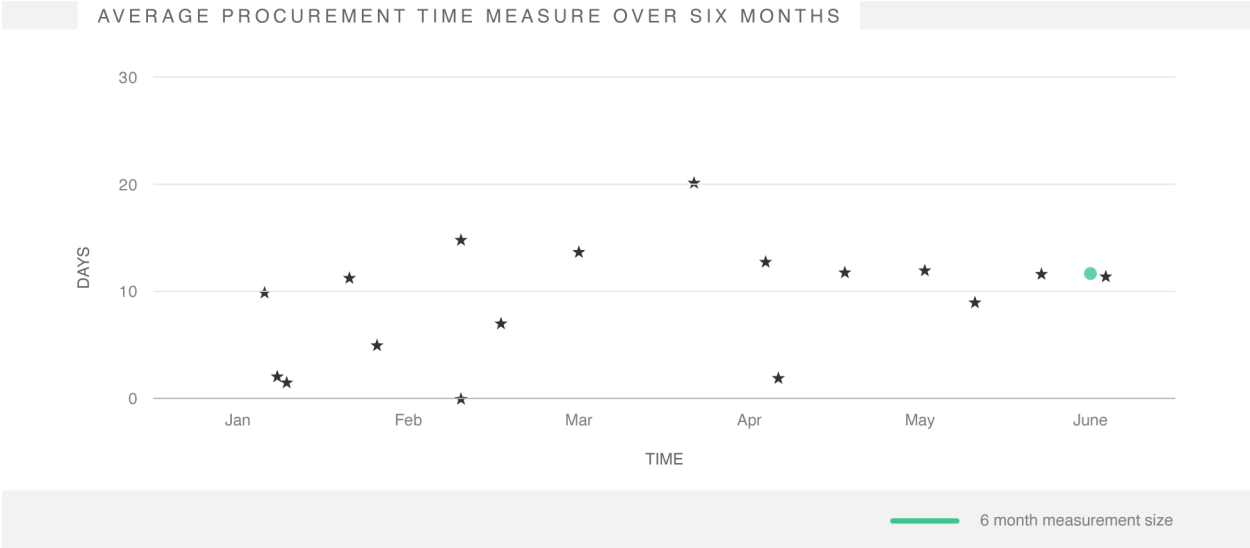
CONDITIONS IN AN IMPROVEMENT CYCLE

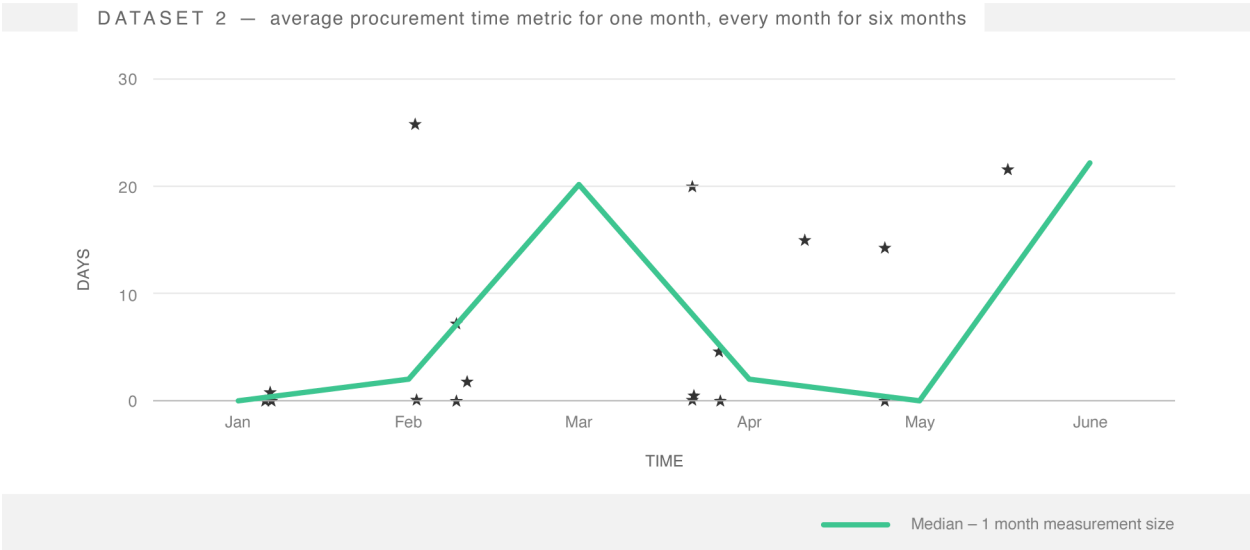
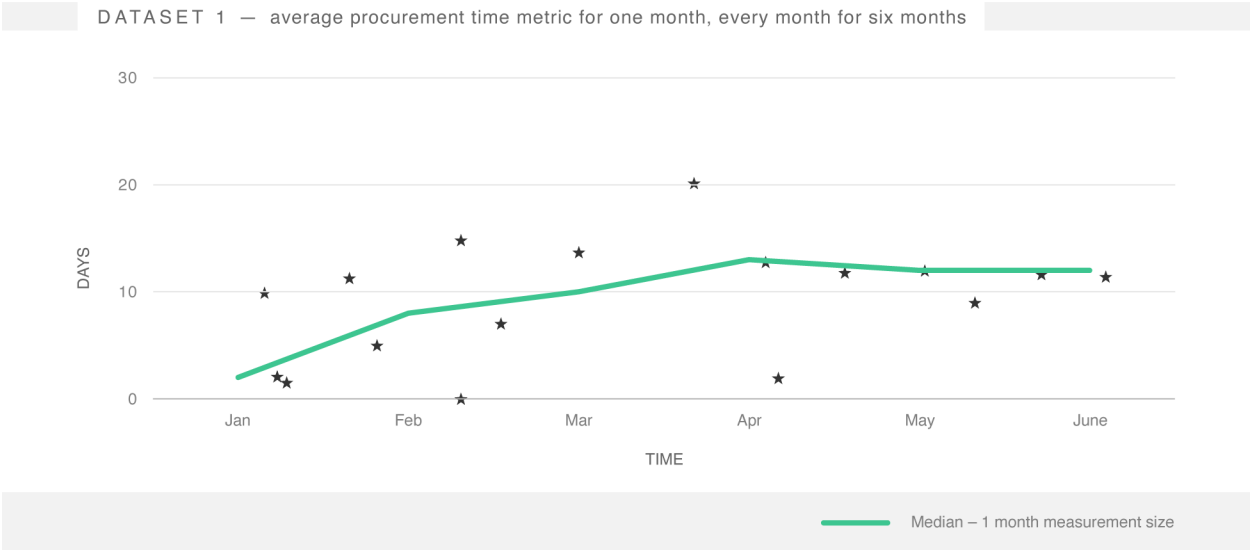


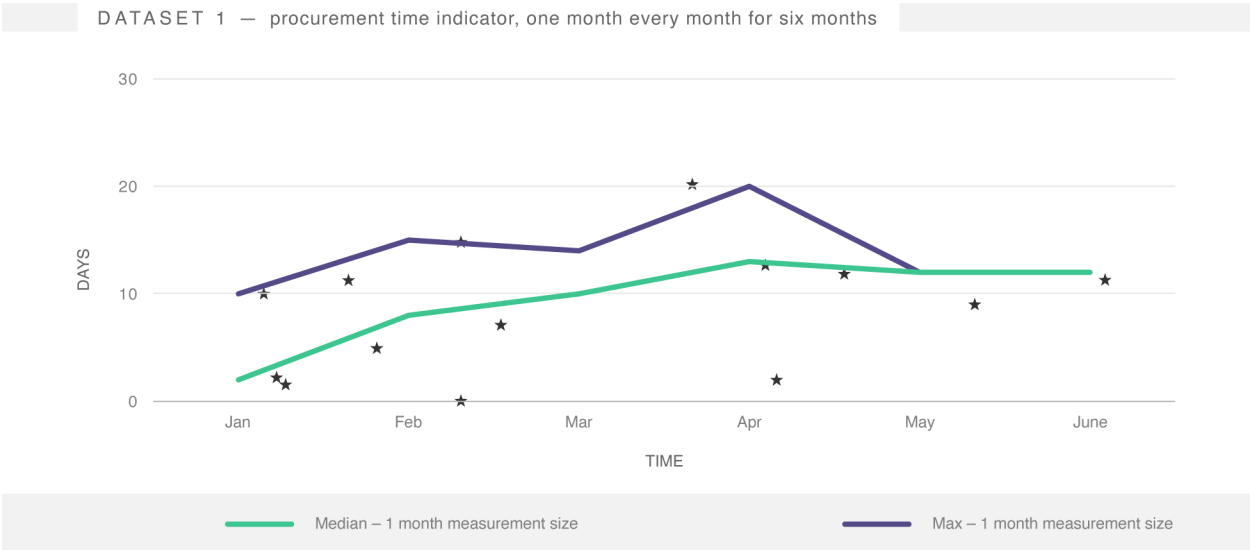
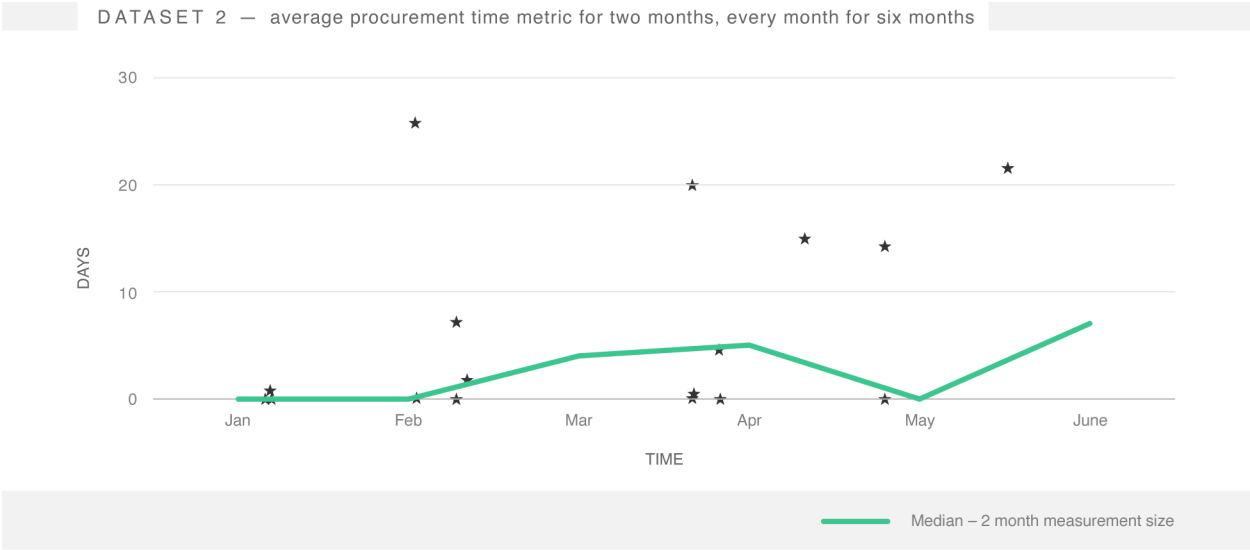
ITERATING TOWARDS THE TARGET IN AN IMPROVEMENT CYCLE

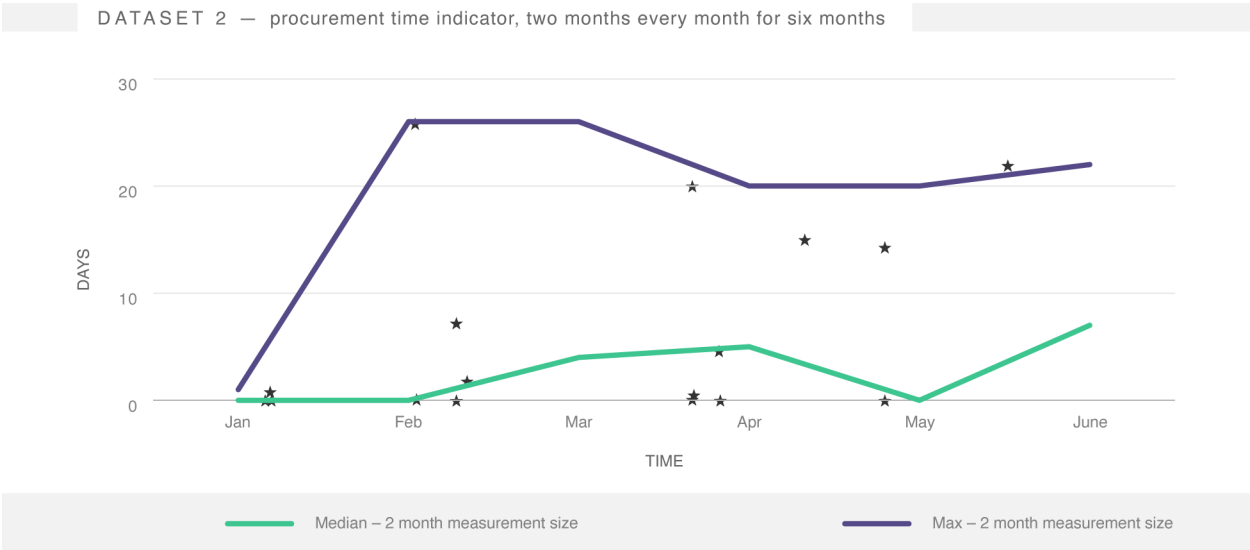
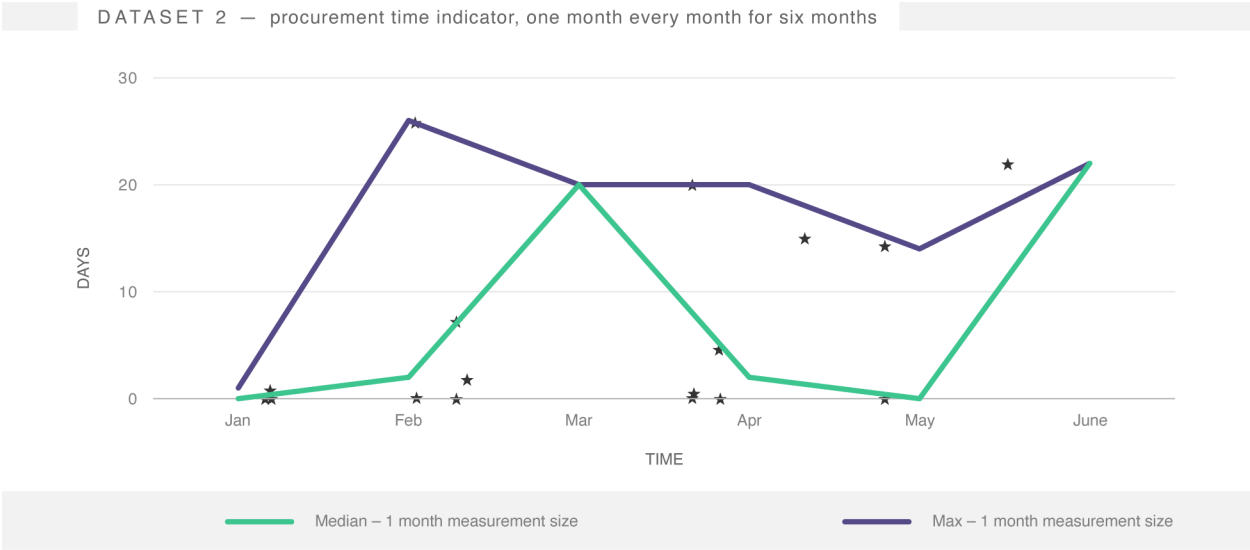


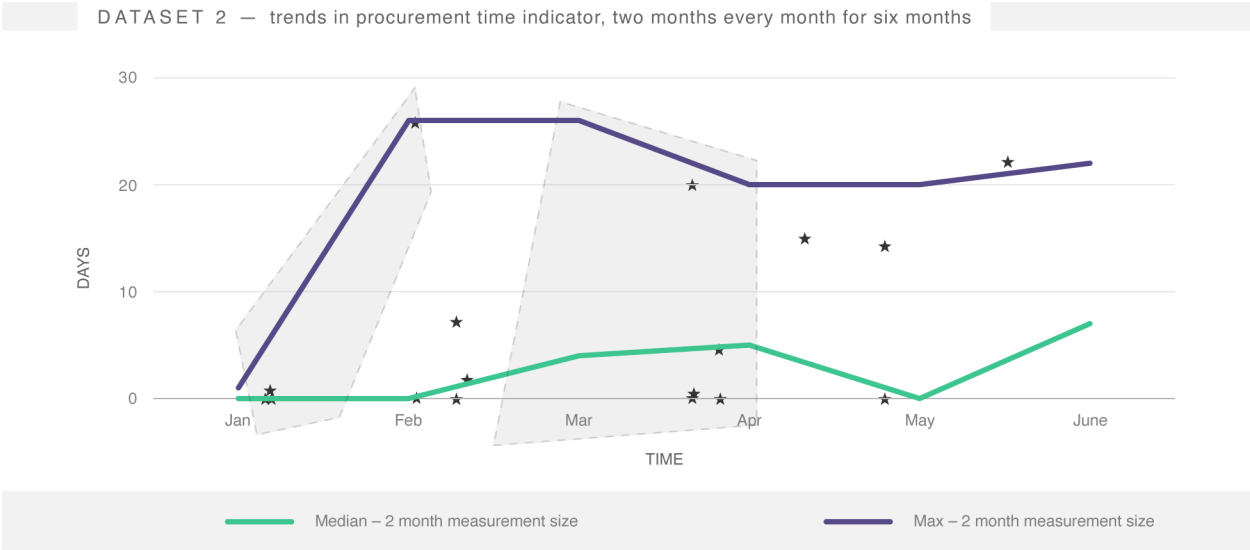
2. Measuring Stability and Throughput



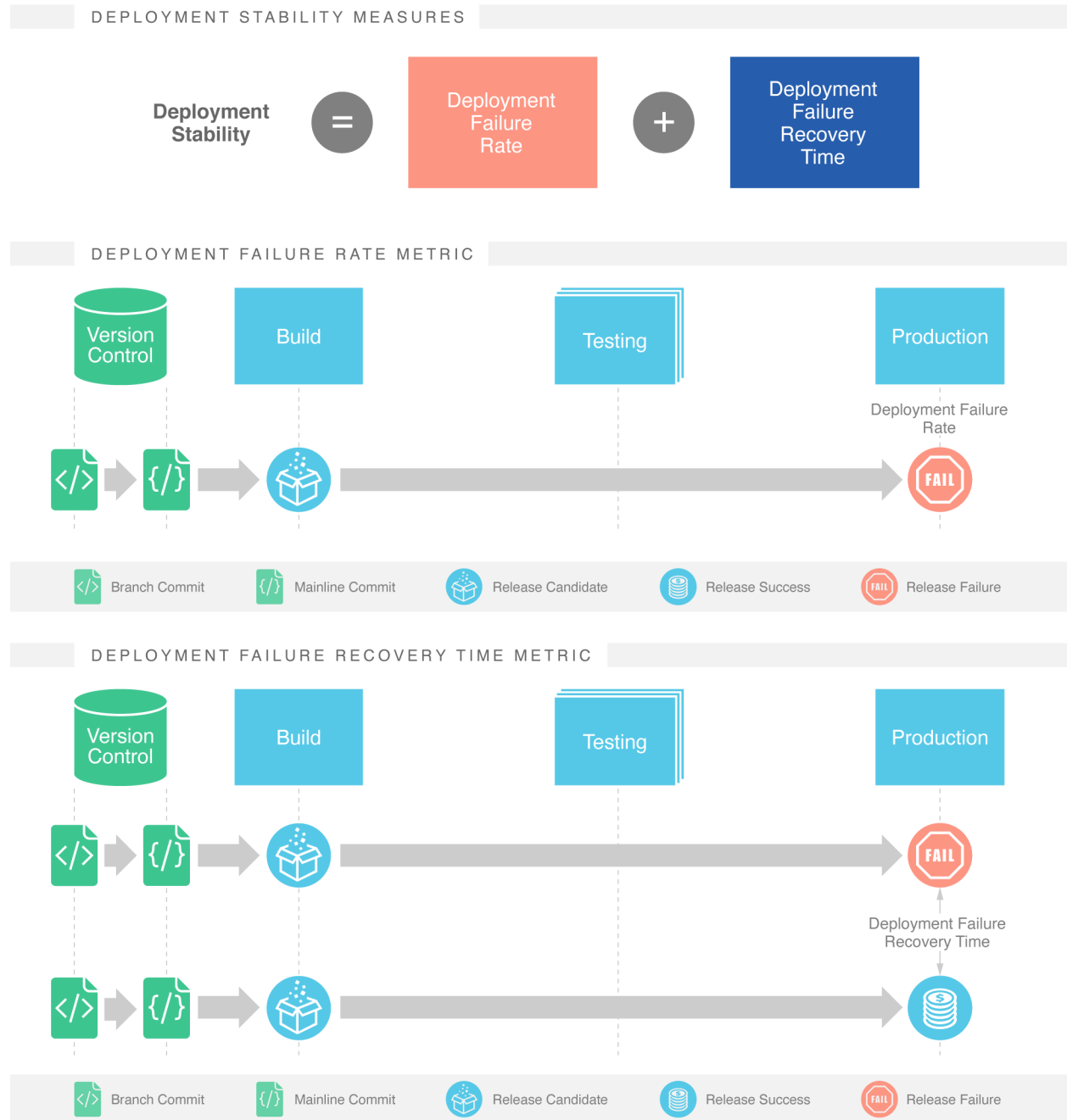


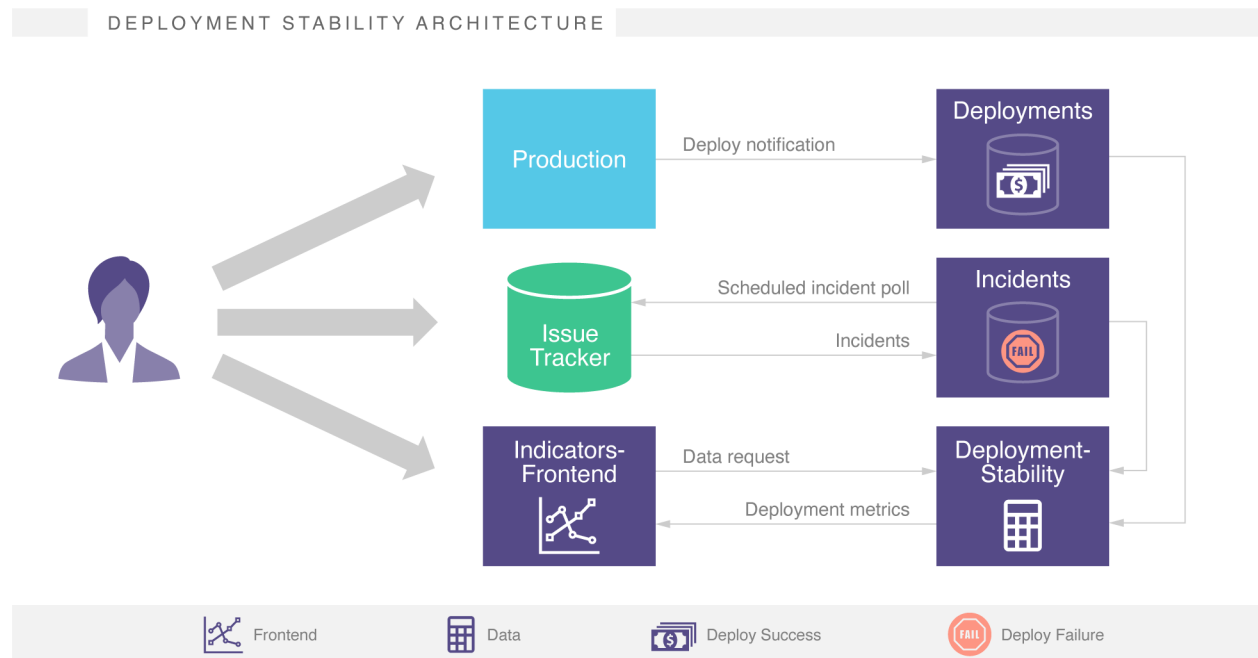
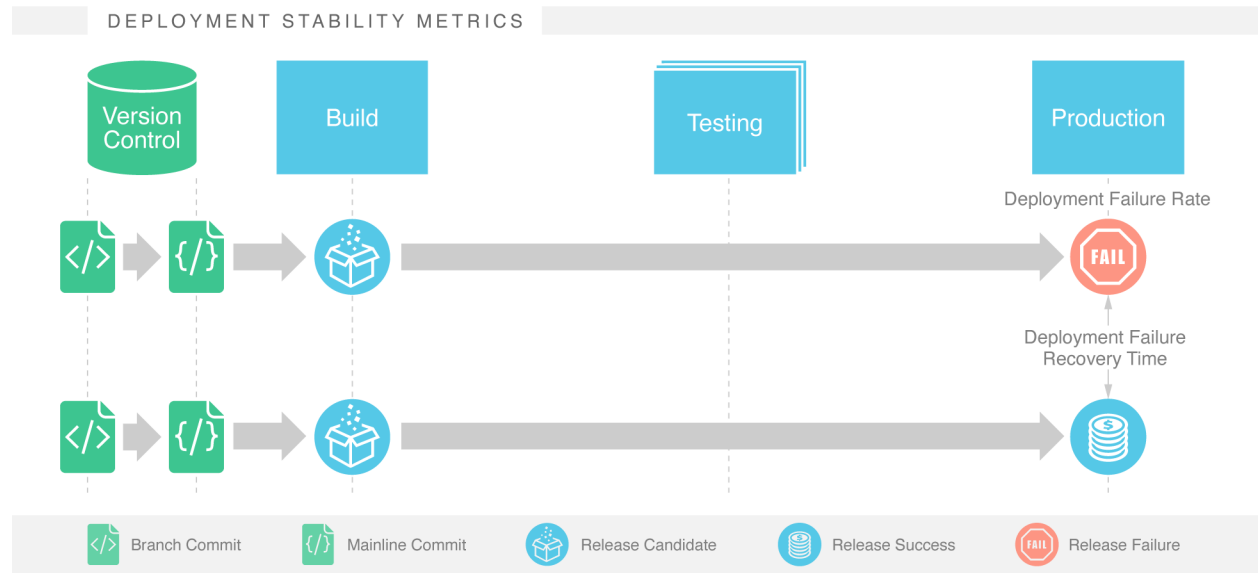


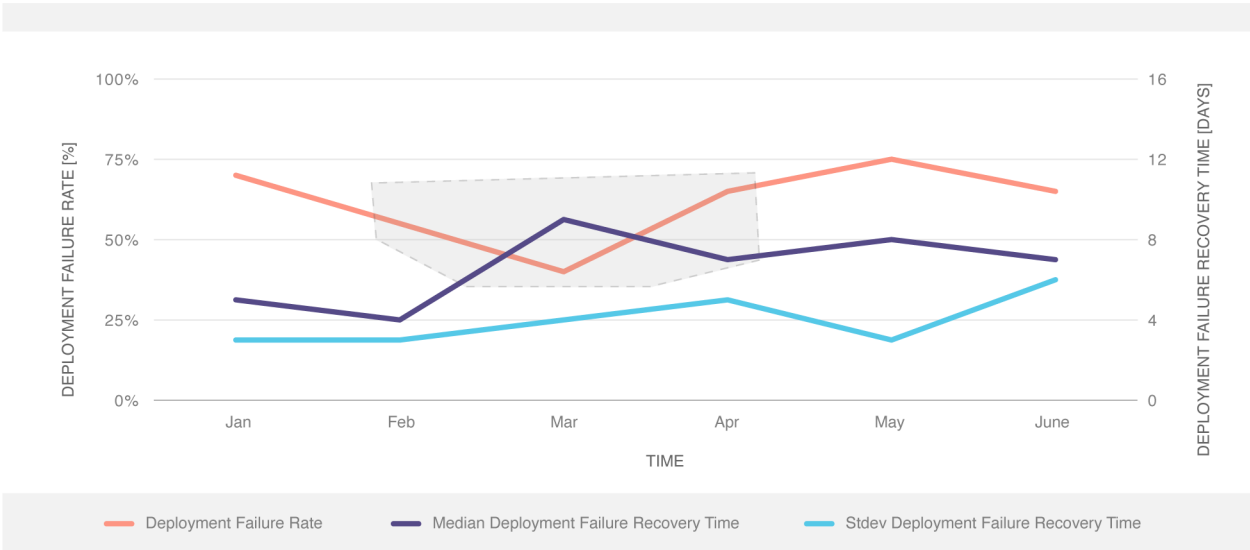
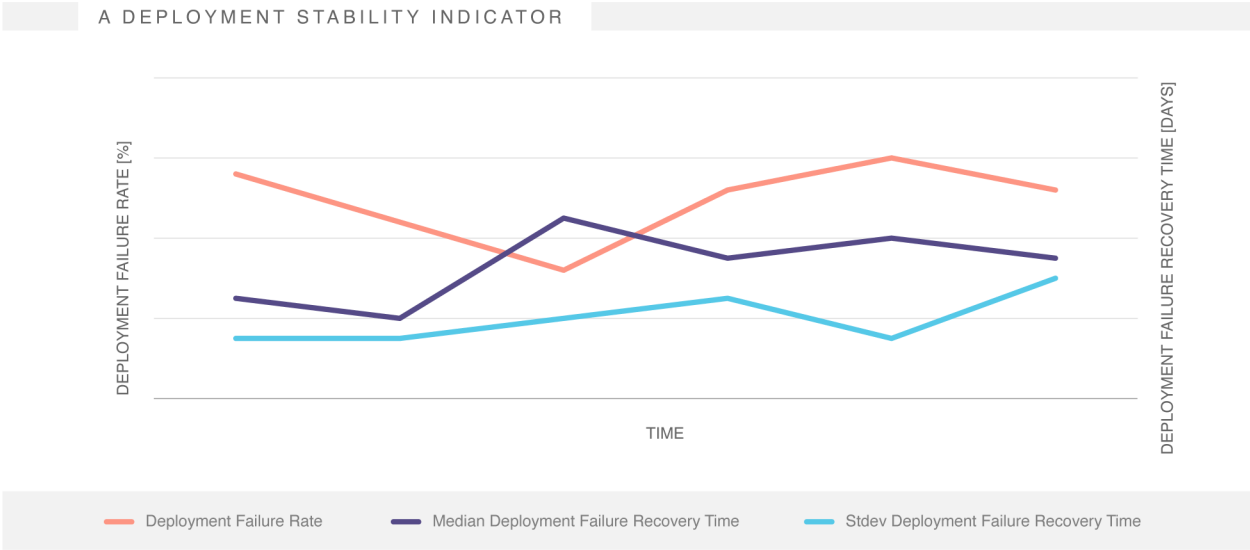


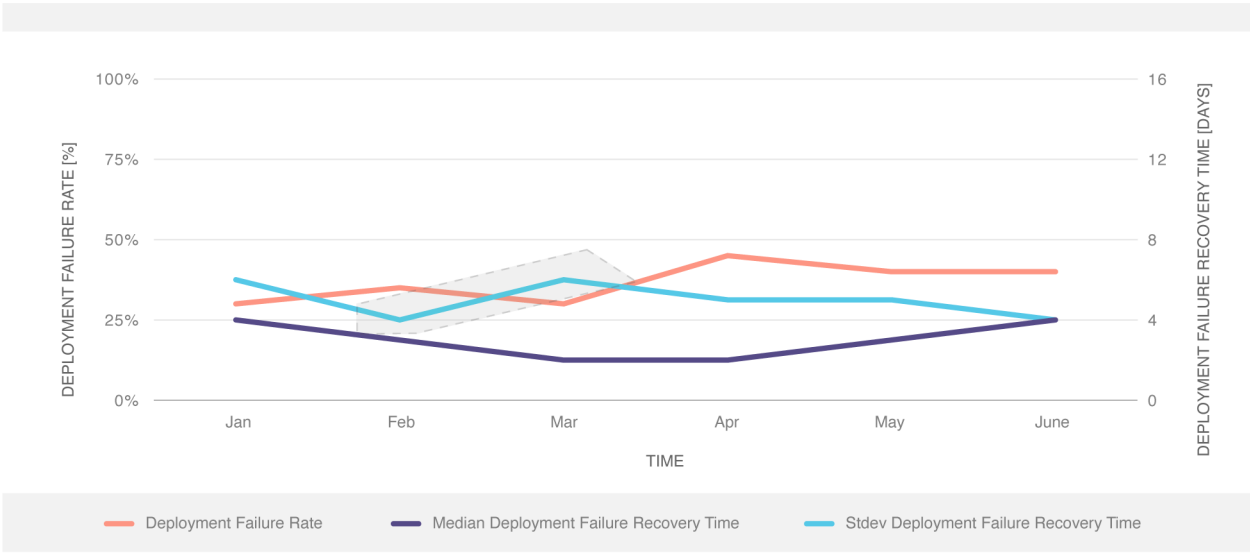
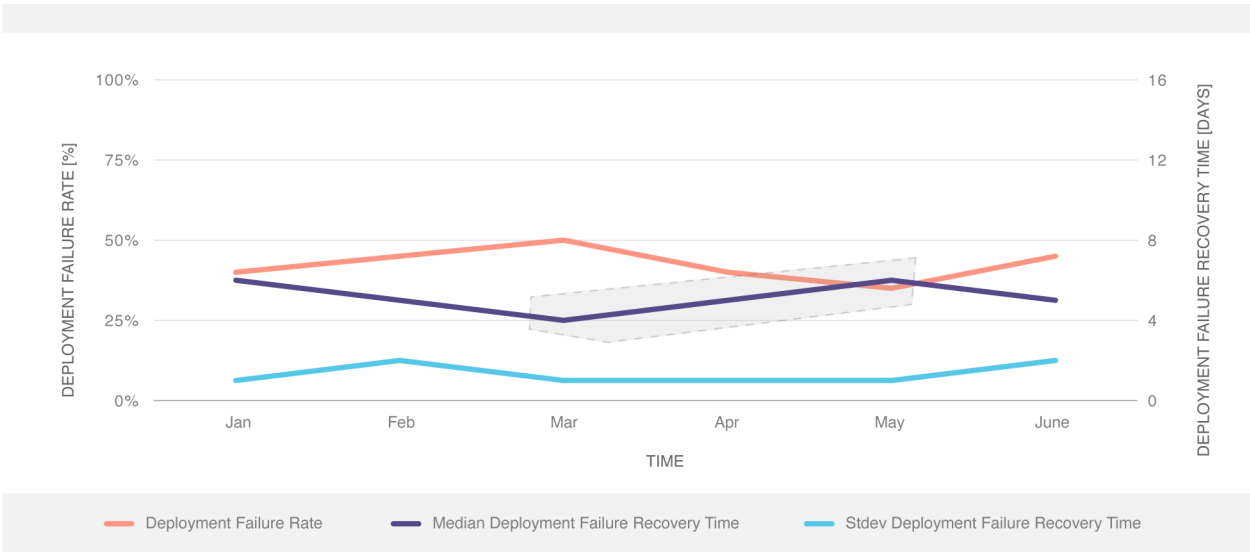


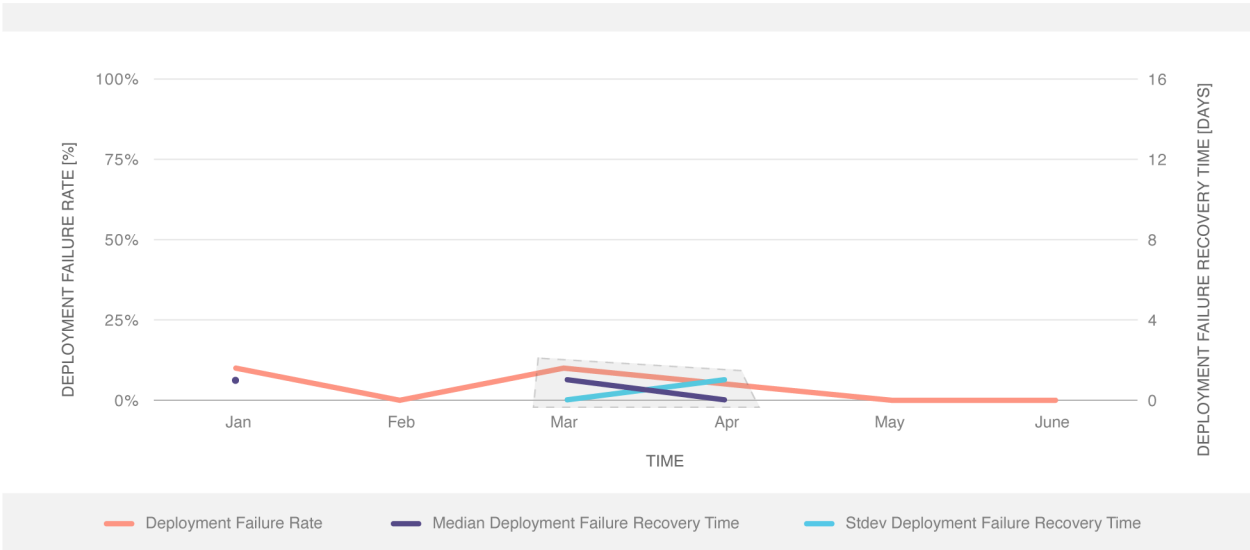
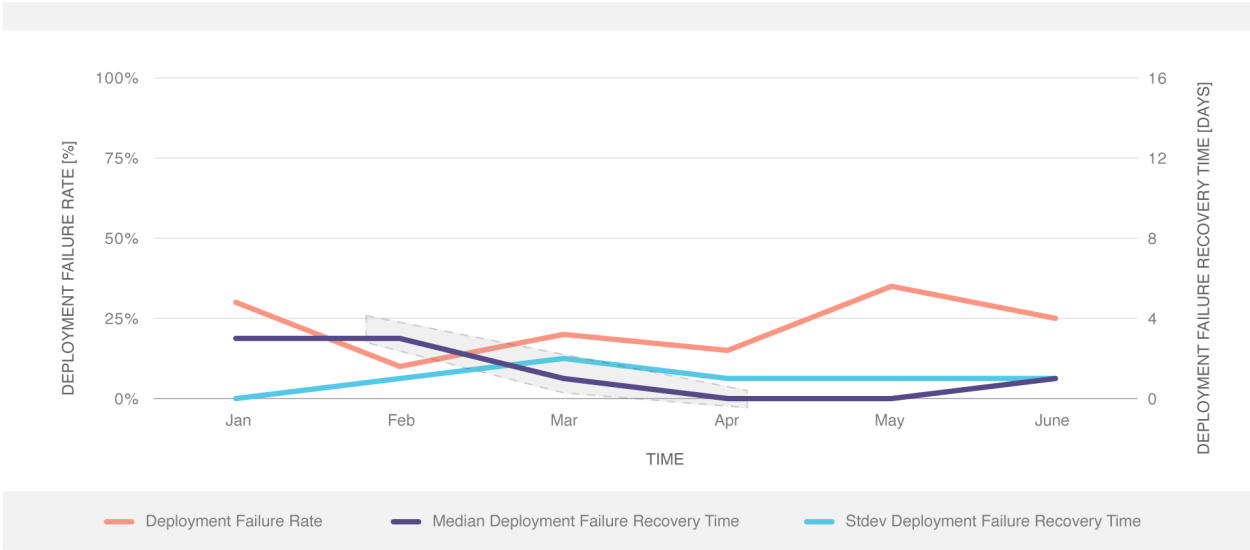
3. The Deployment Stability Indicator



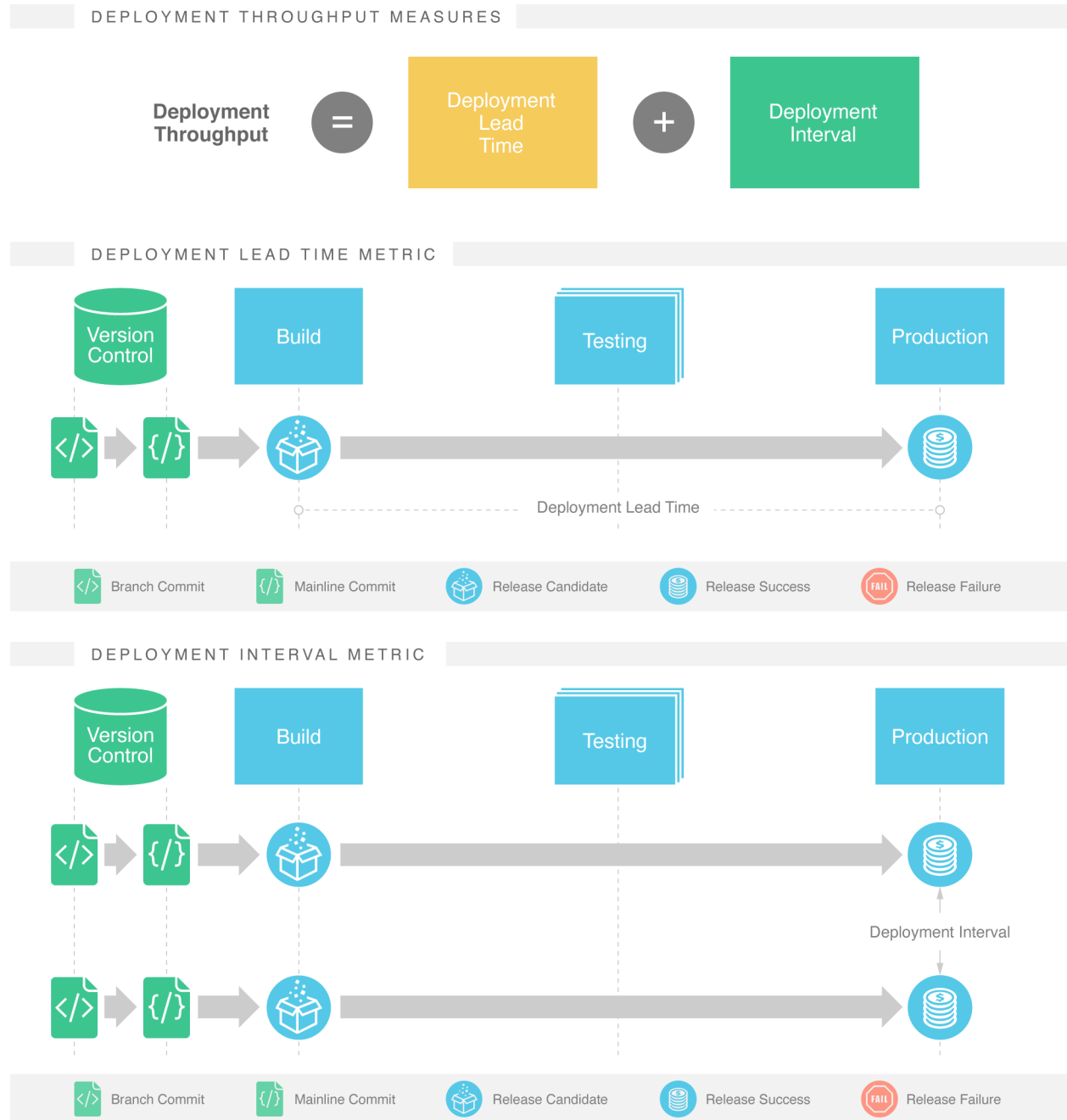


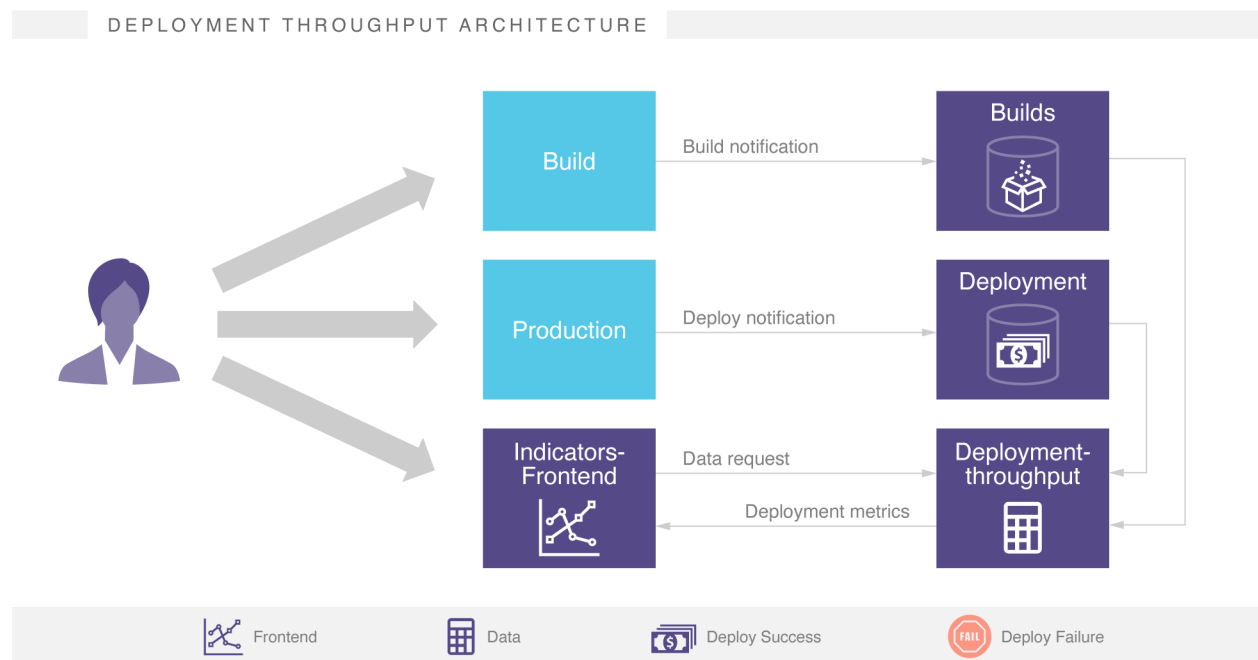
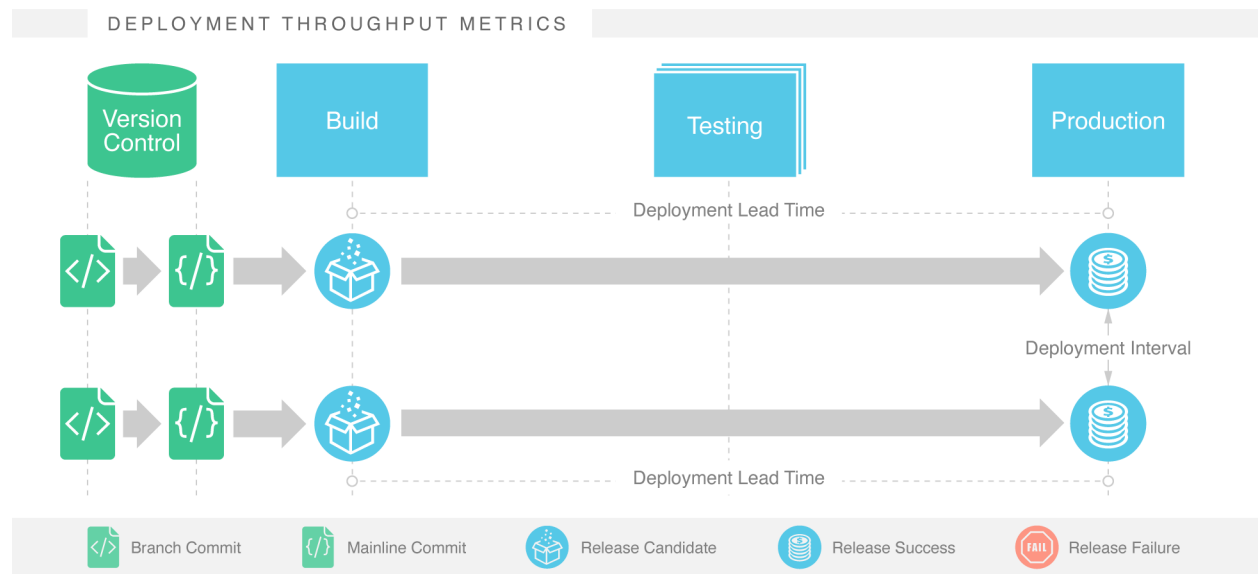




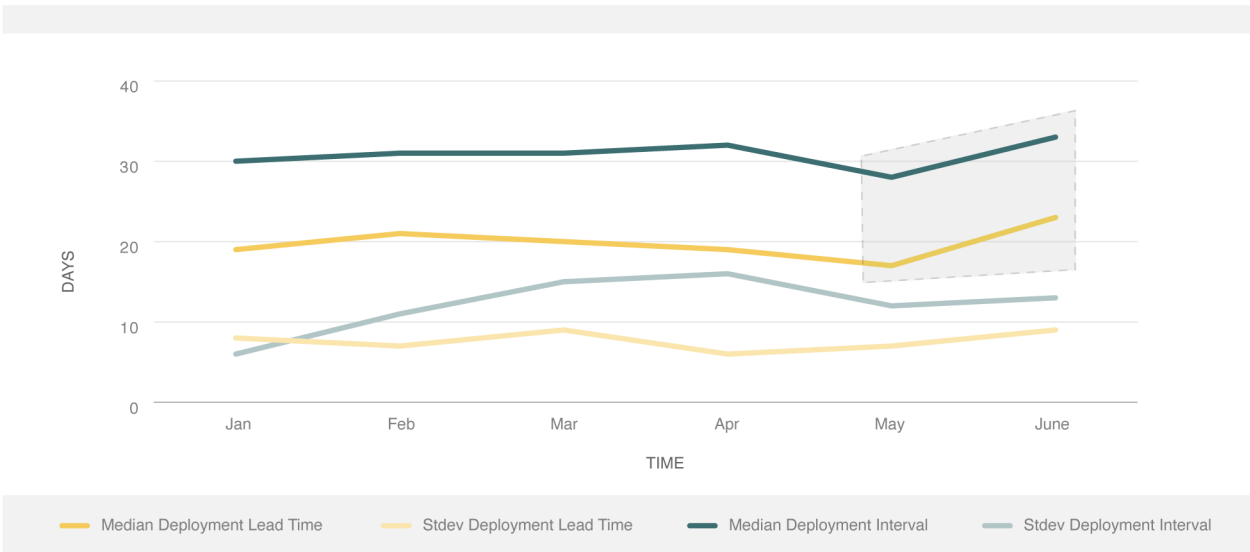
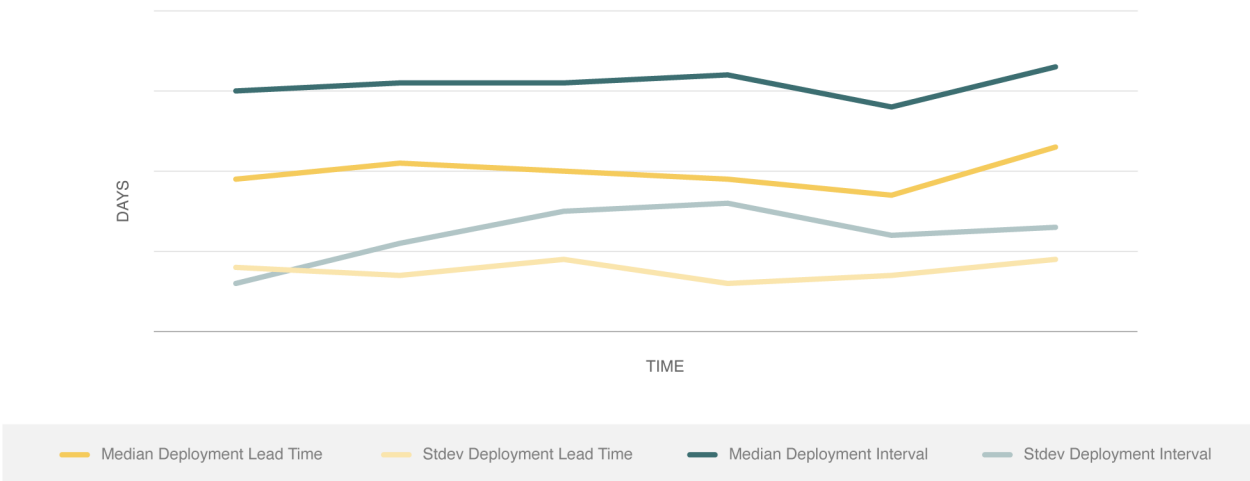


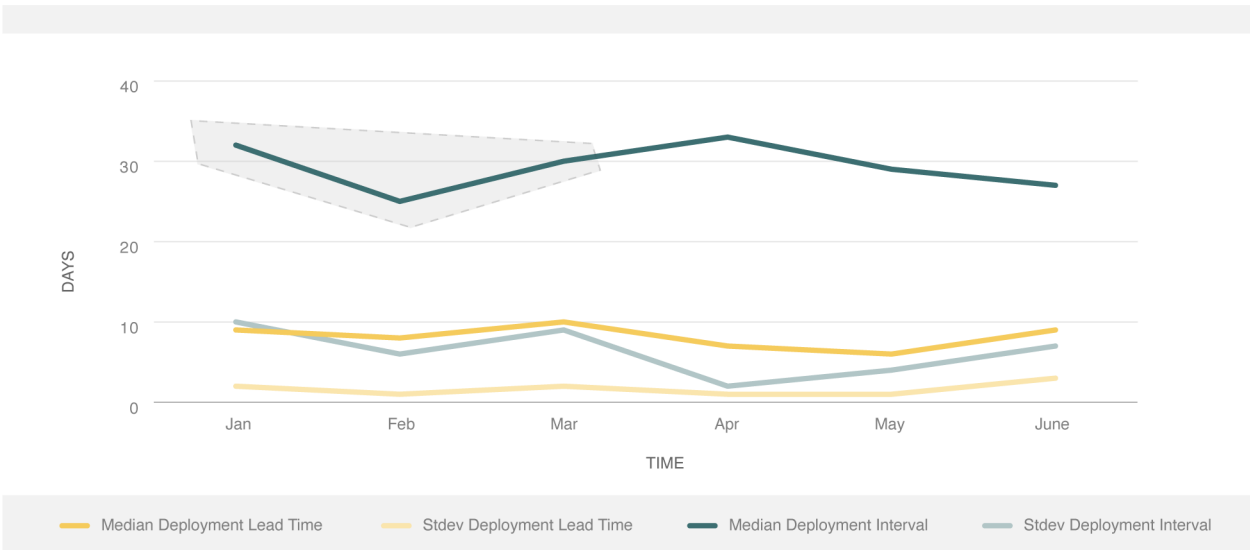
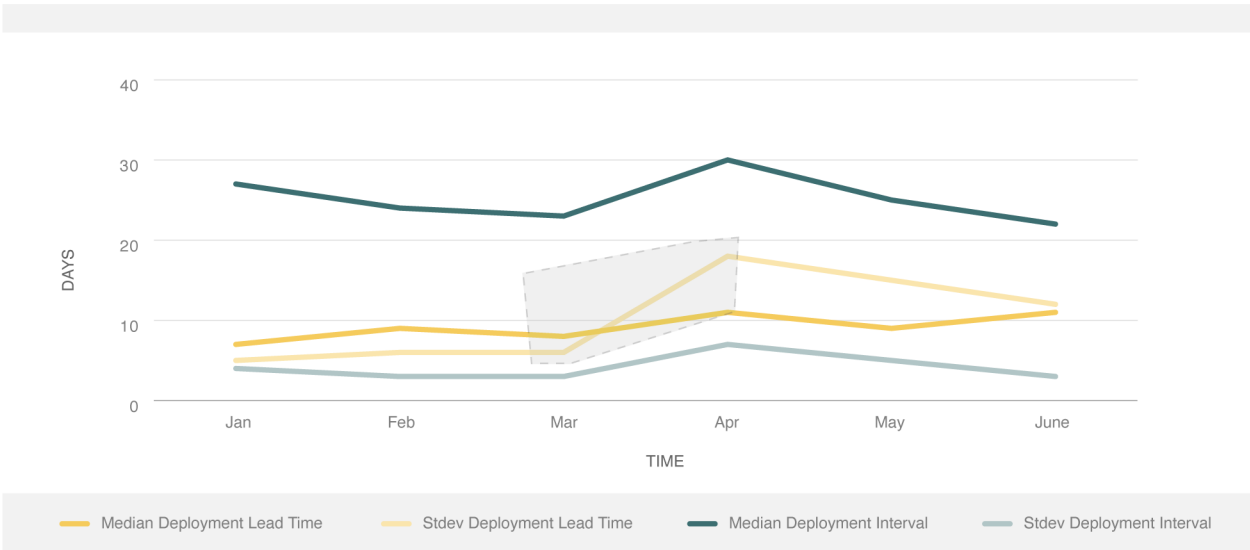
4. The Deployment Throughput Indicator

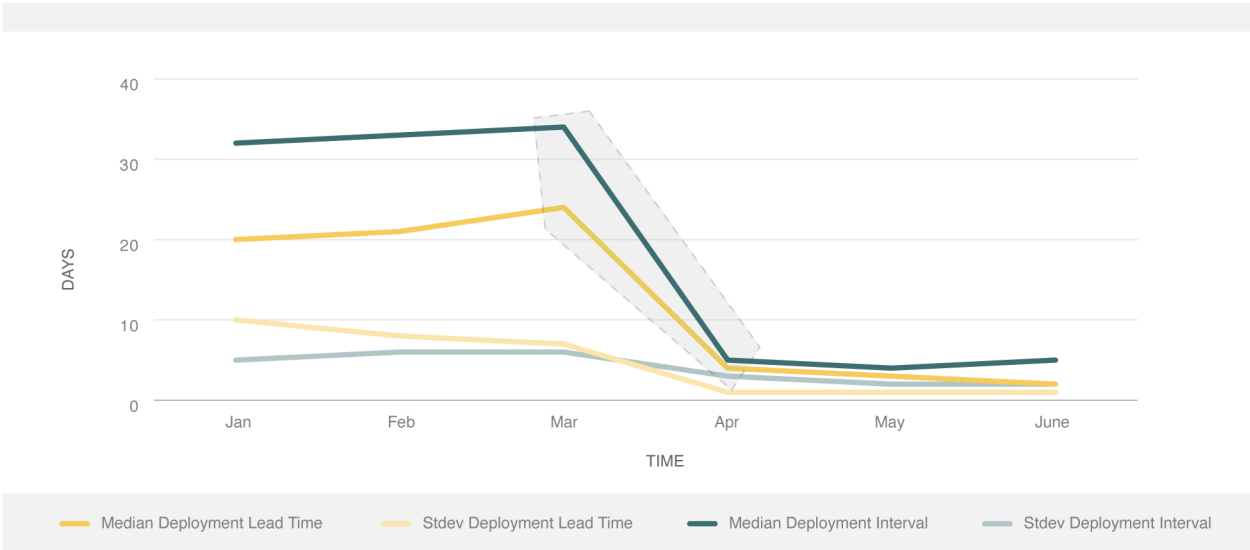
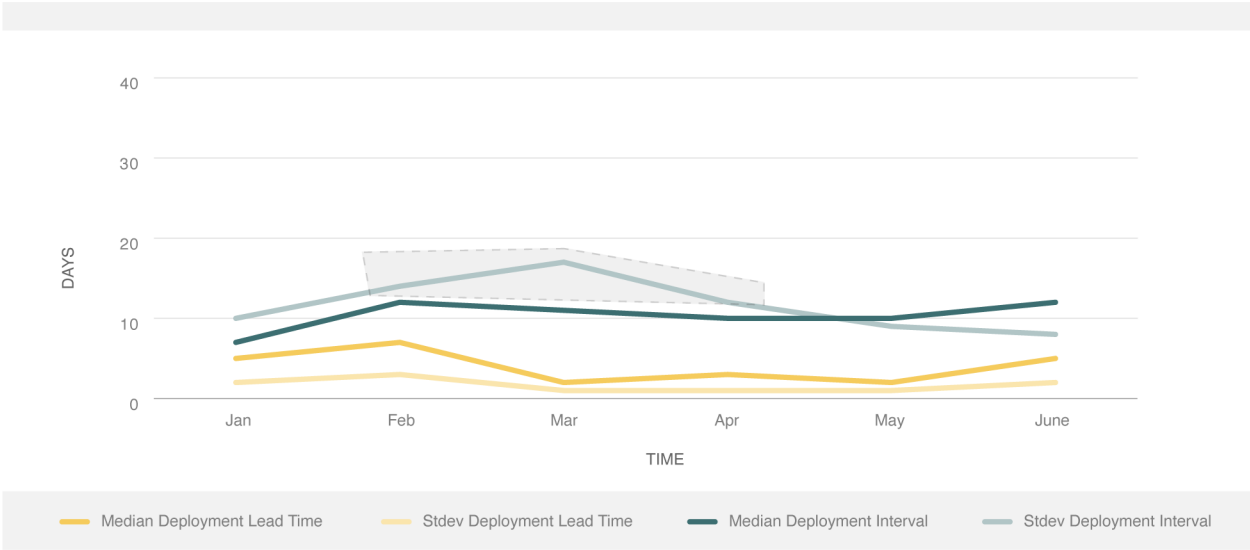


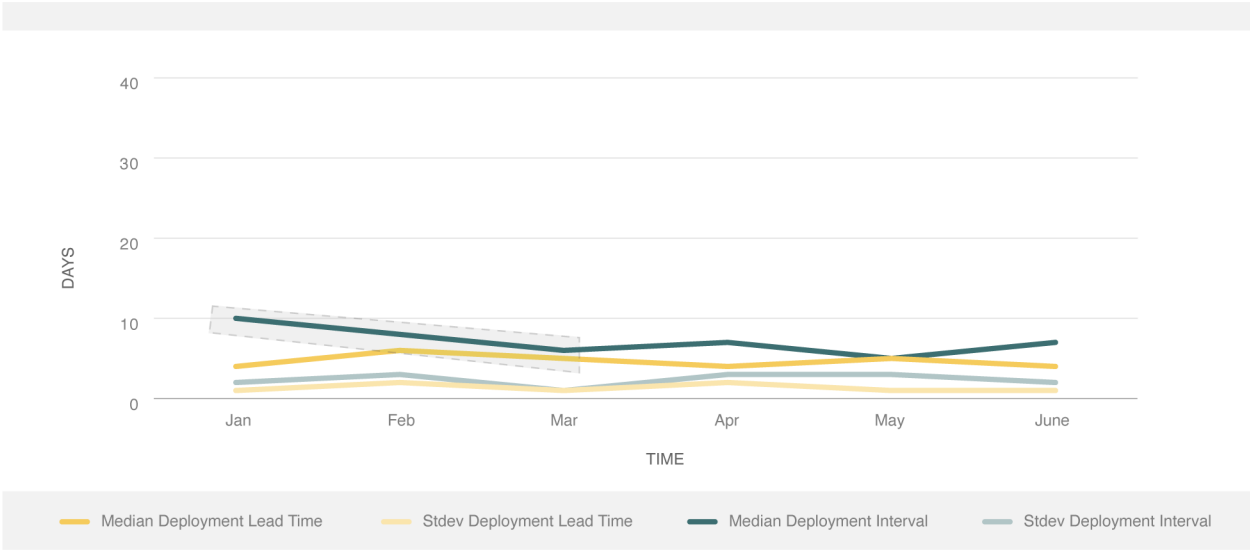


A DEPLOYMENT THROUGHPUT INDICATOR

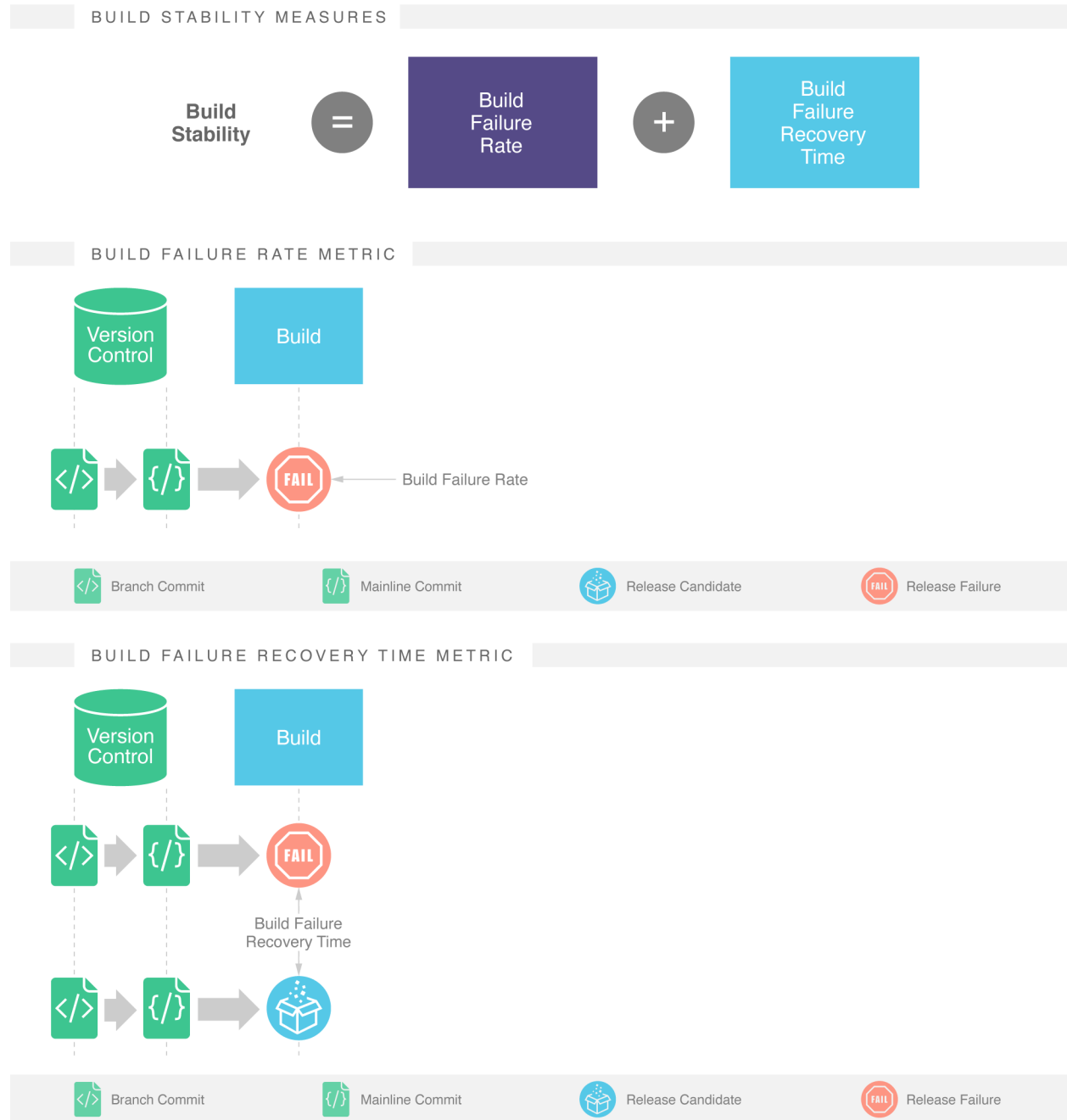




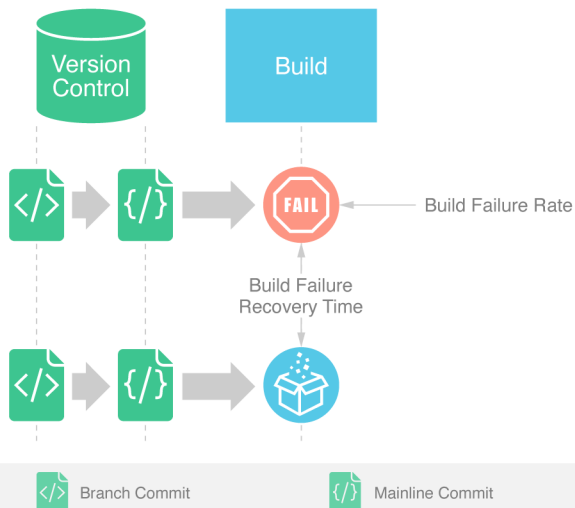




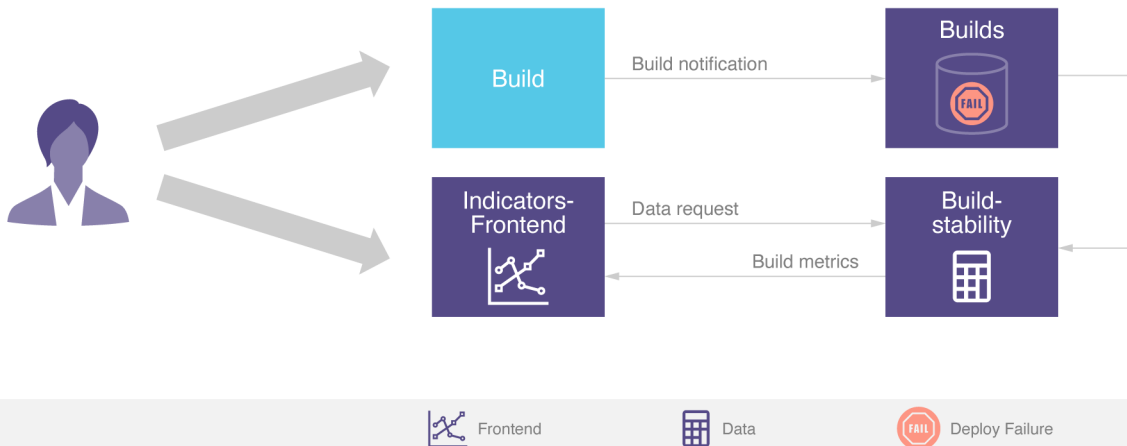
5. The Build Stability Indicator

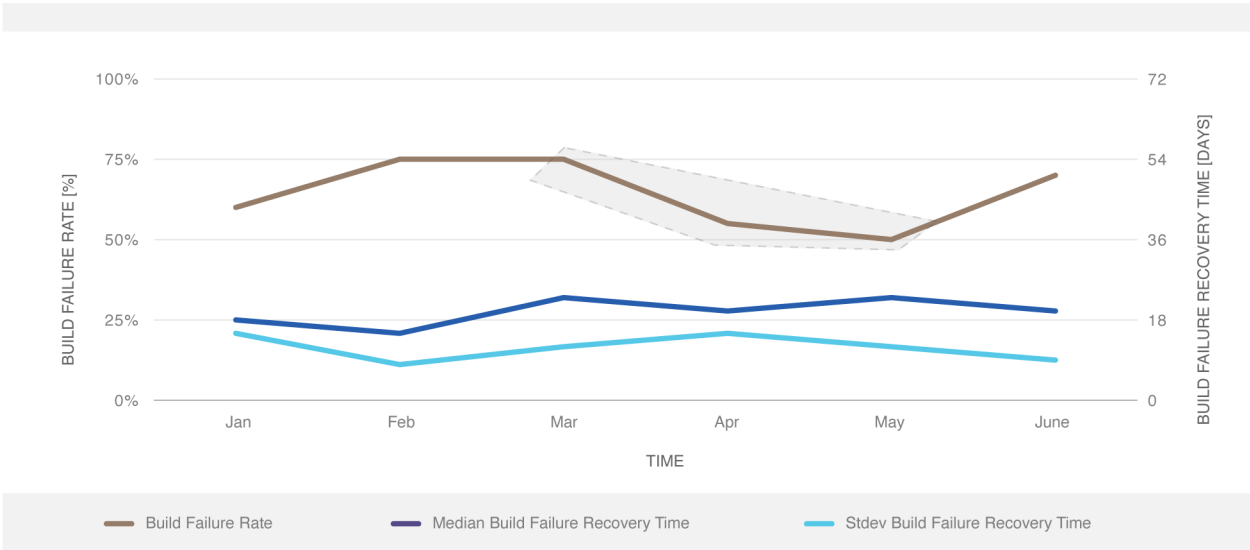
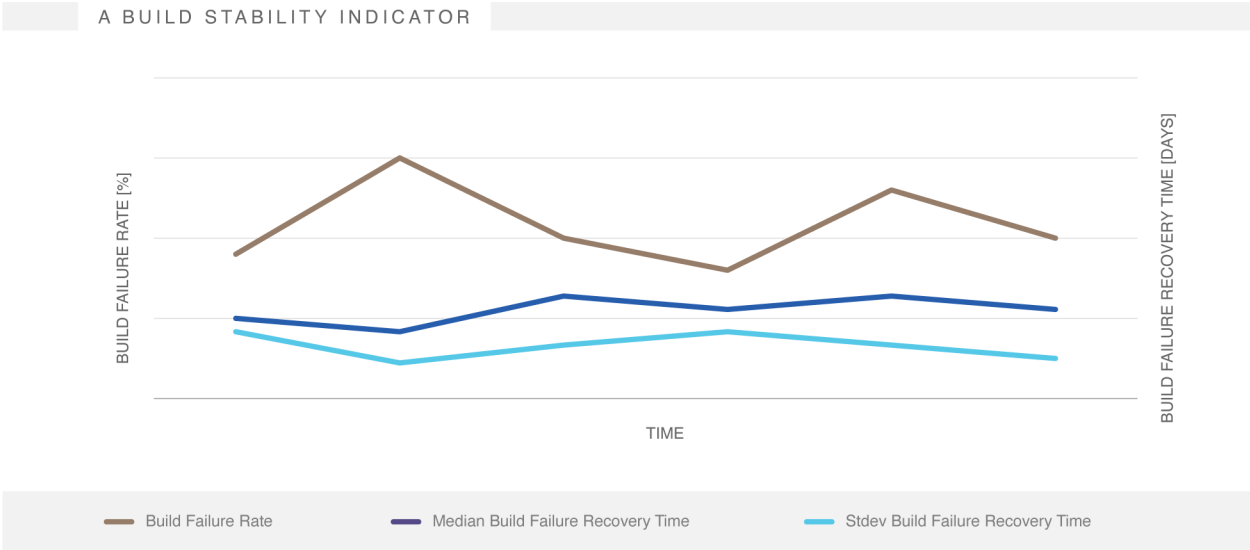


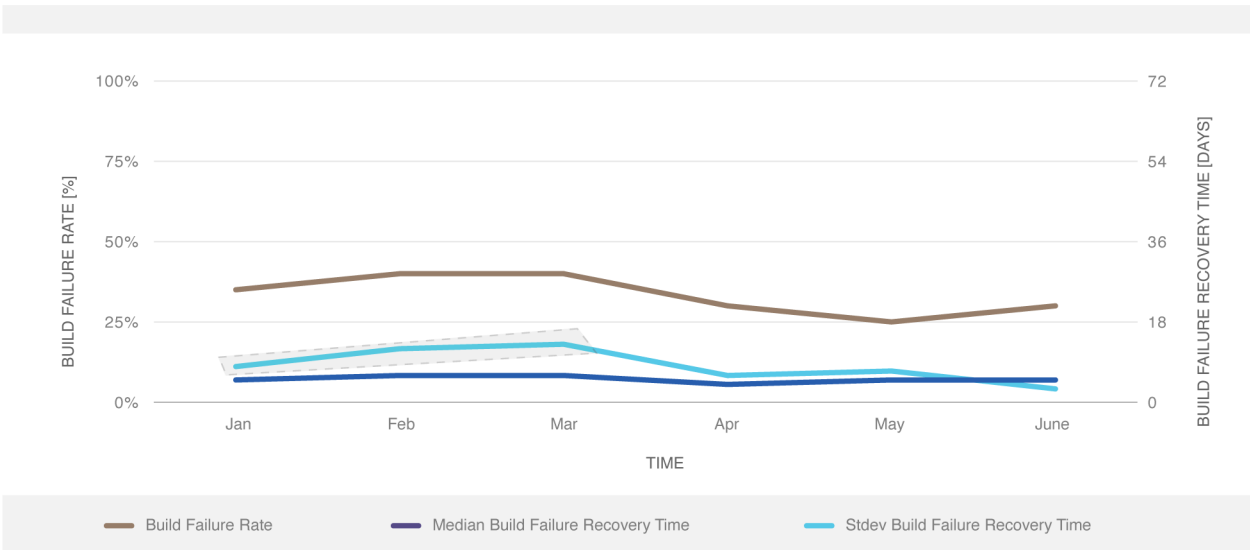
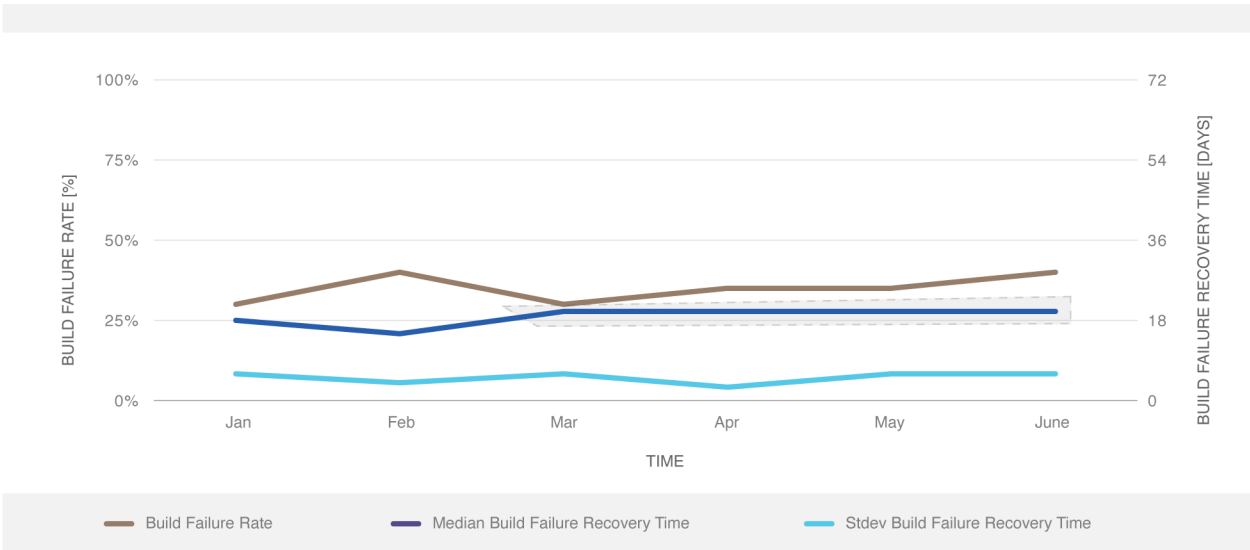
BUILD STABILITY METRICS

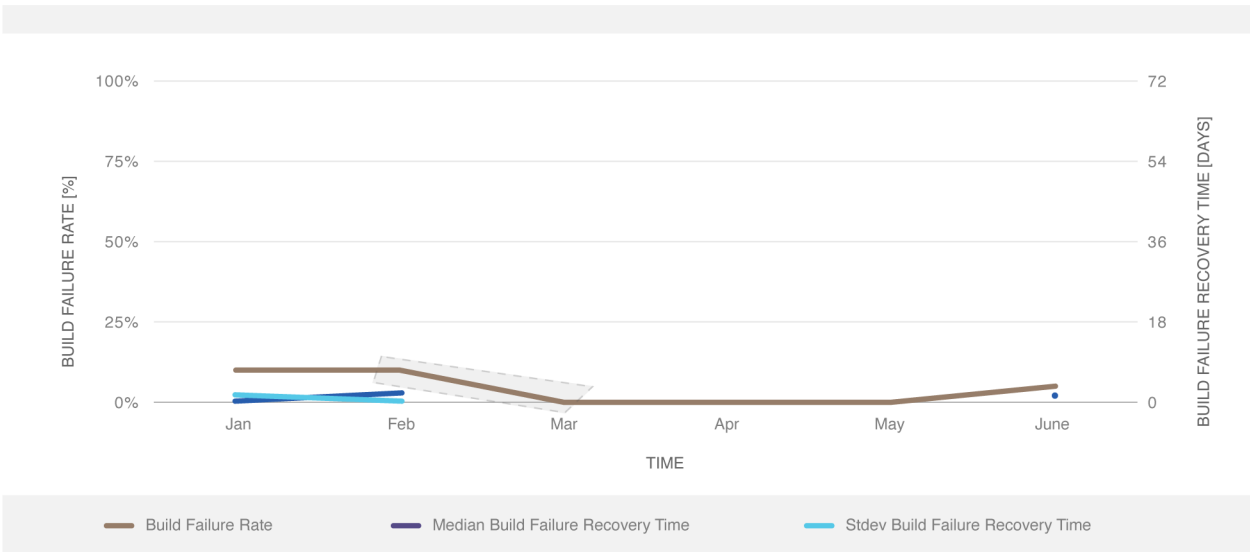
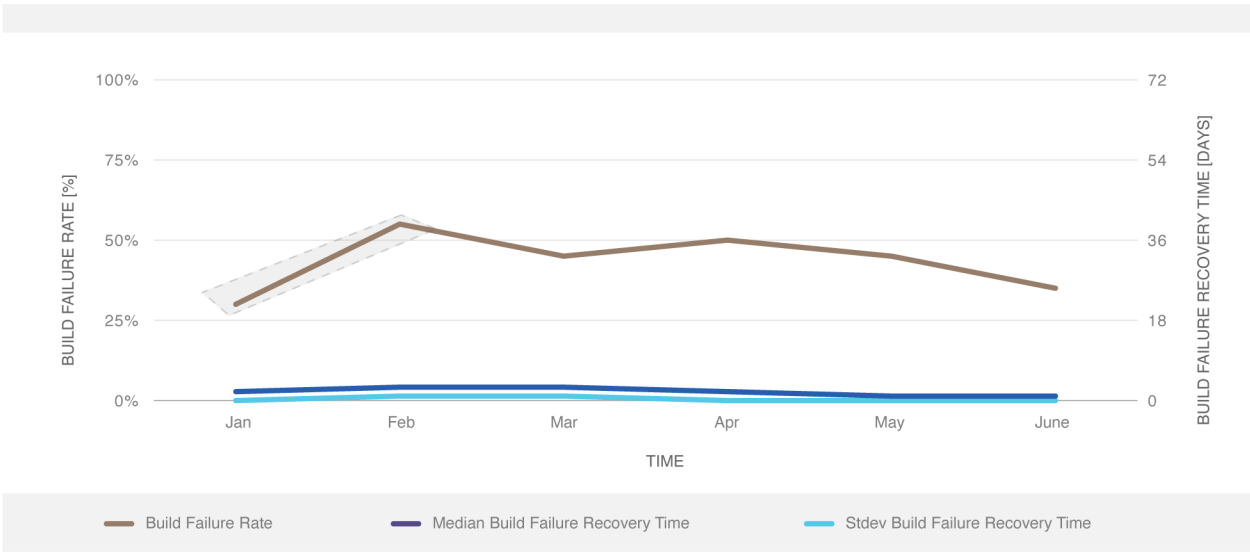


BUILD STABILITY ARCHITECTURE

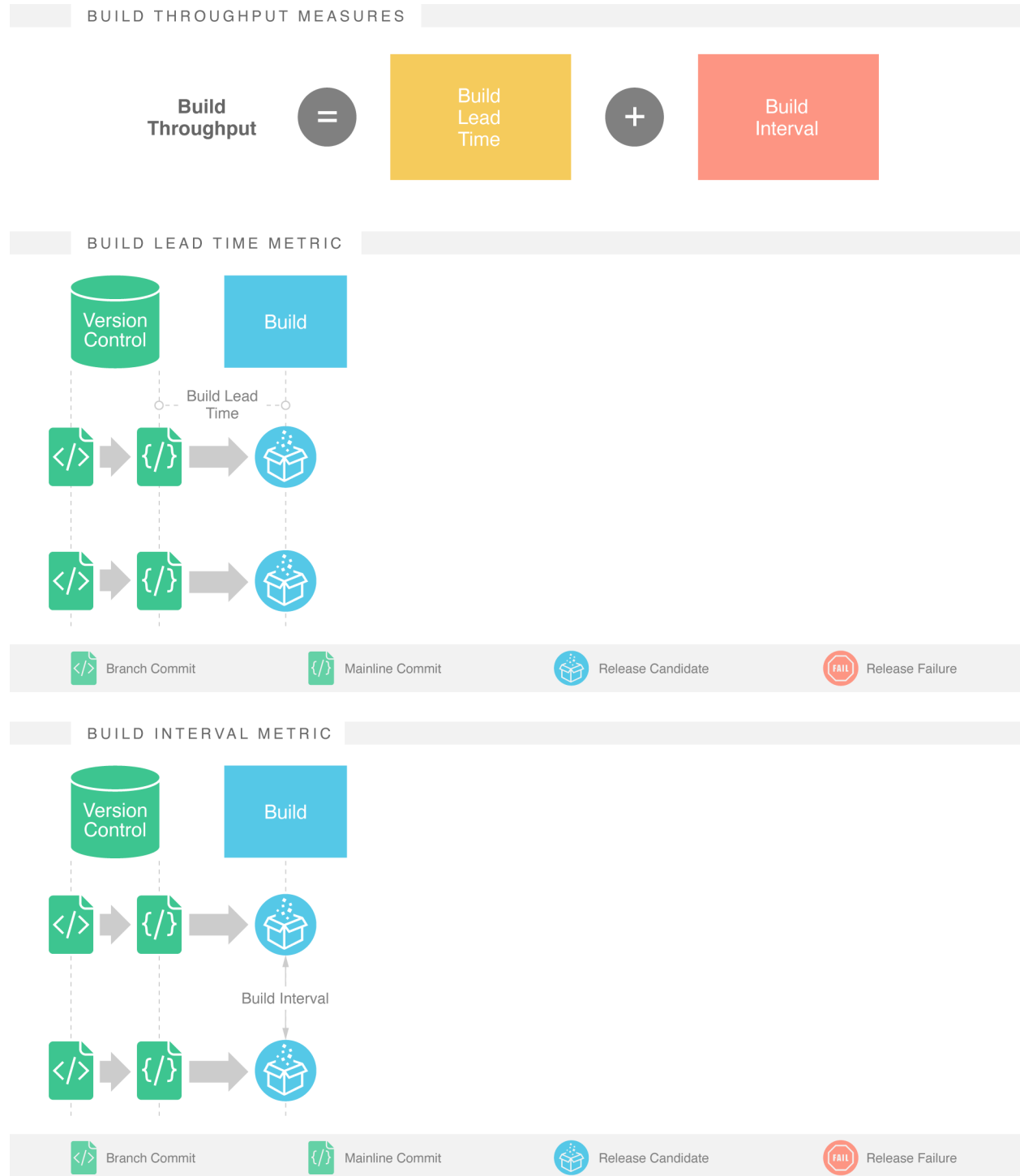




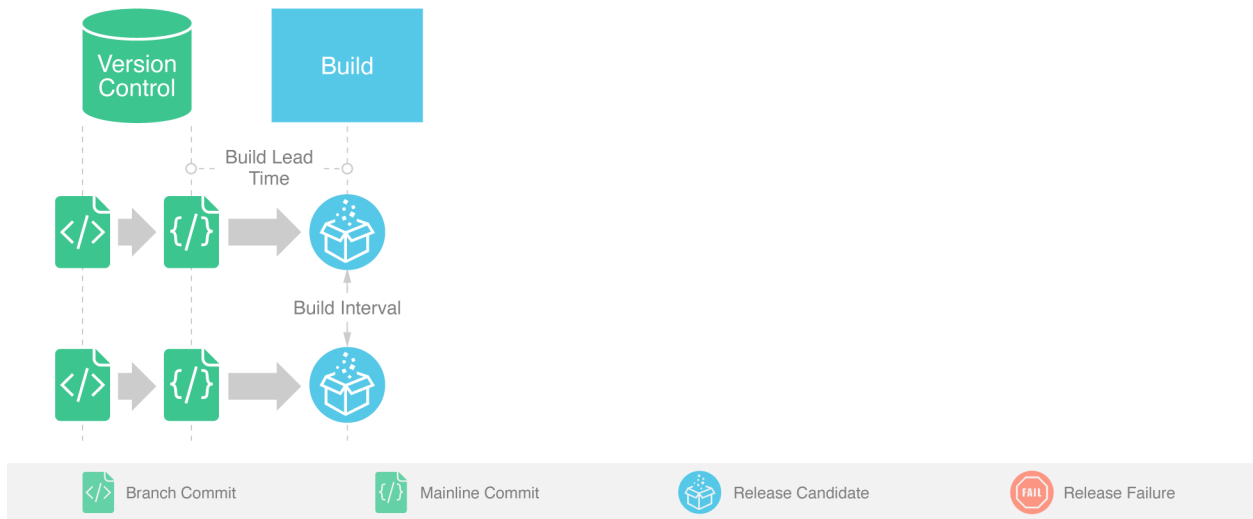




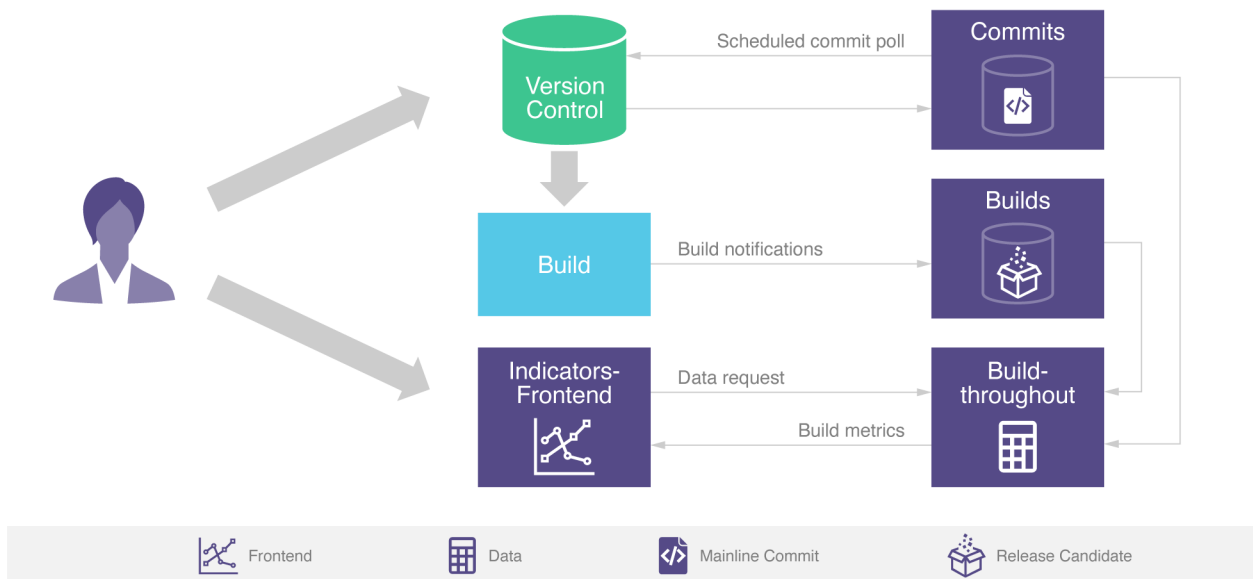
6. The Build Throughput Indicator



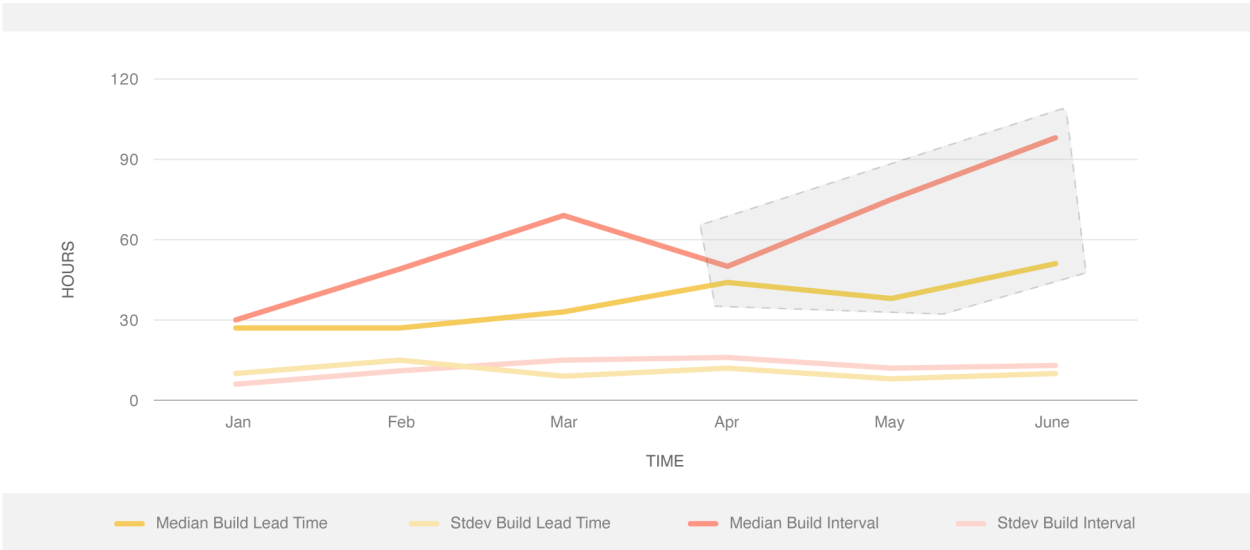
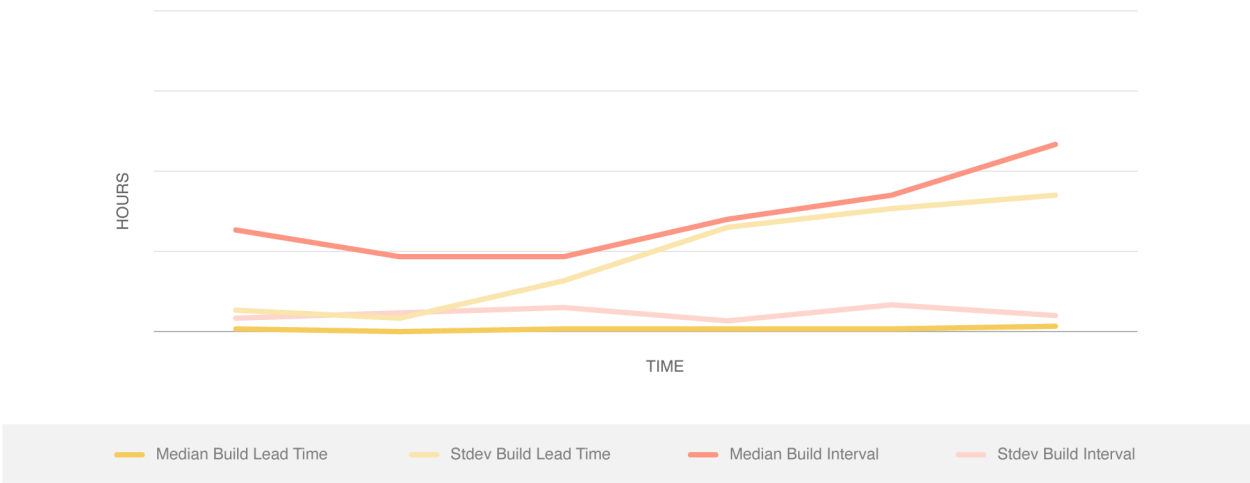
BUILD THROUGHPUT METRICS

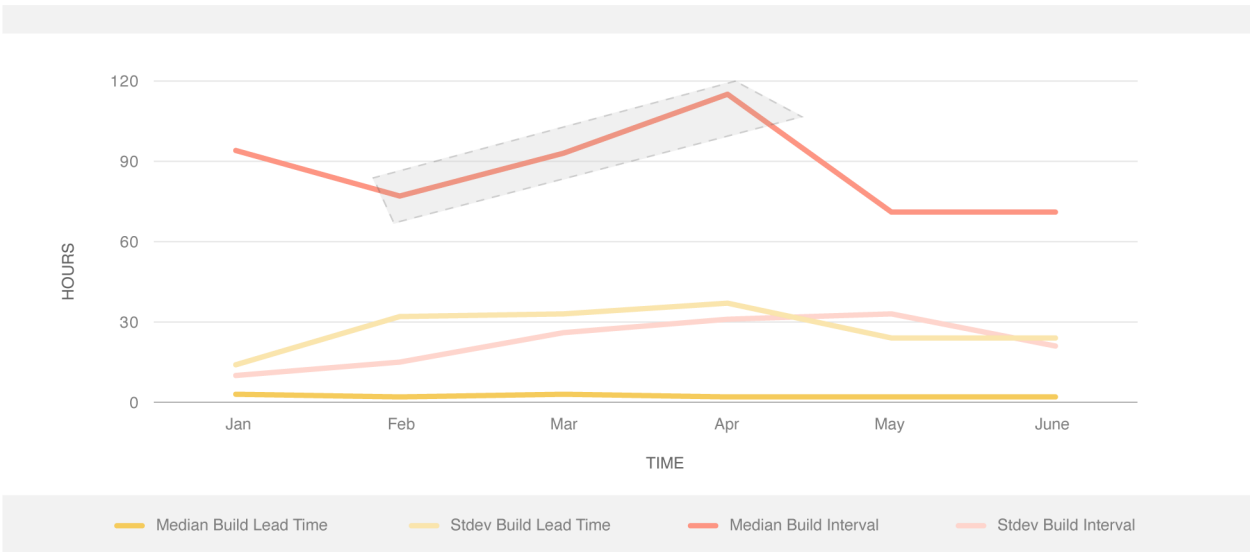
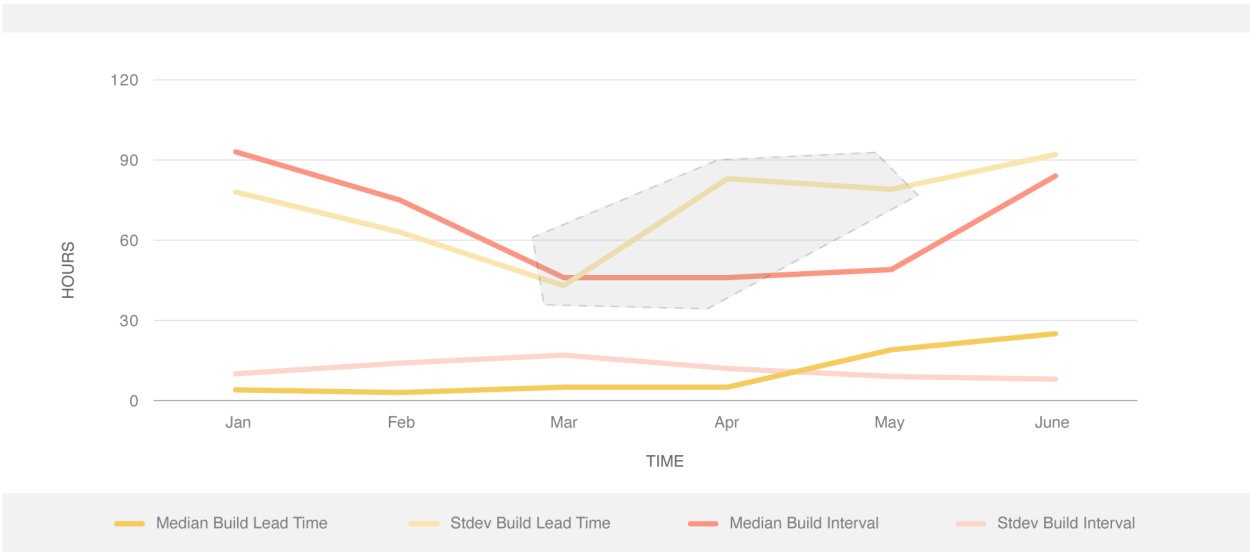


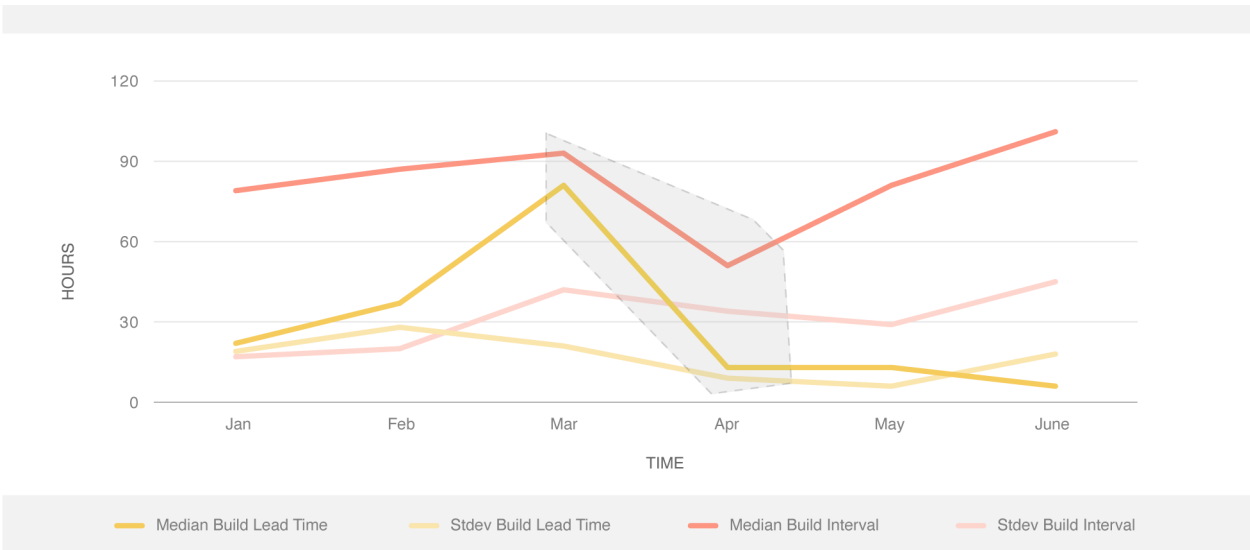
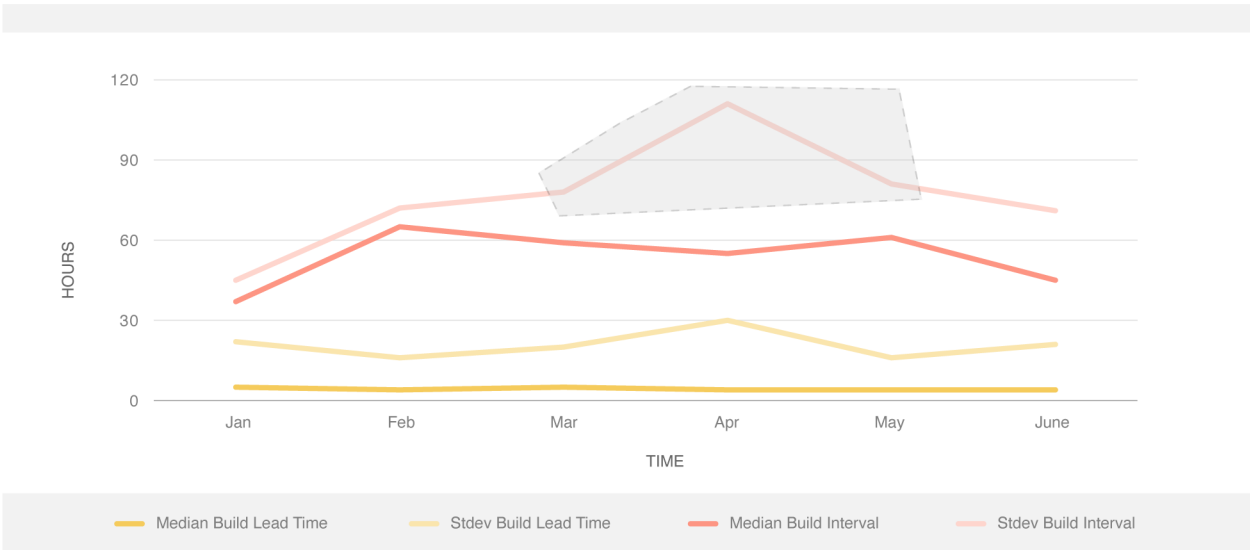
BUILD THROUGHPUT ARCHITECTURE

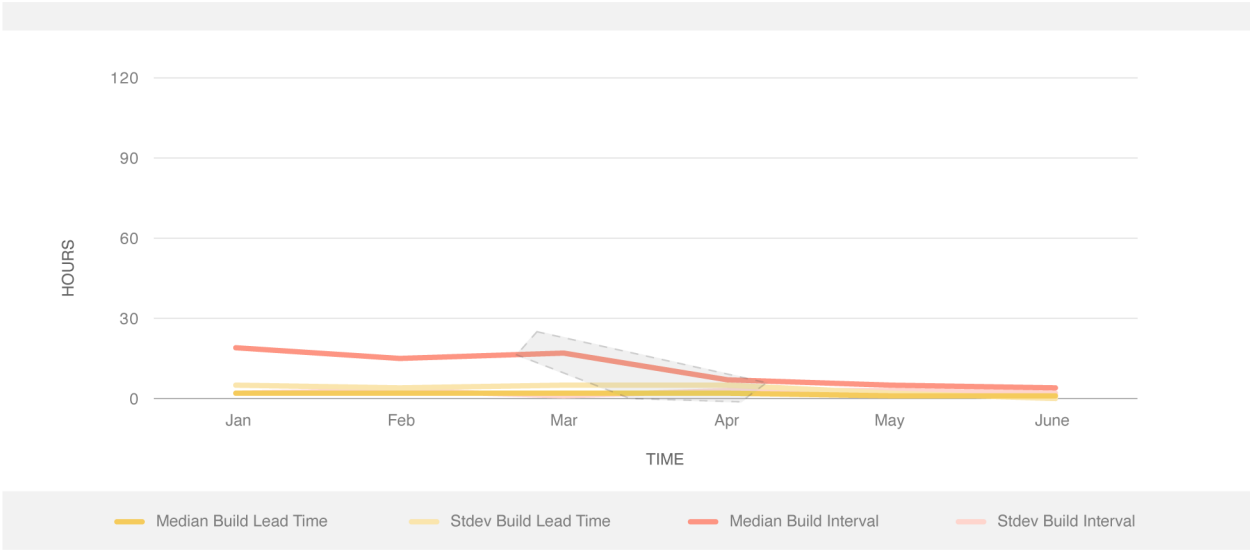


A BUILD THROUGHPUT INDICATOR

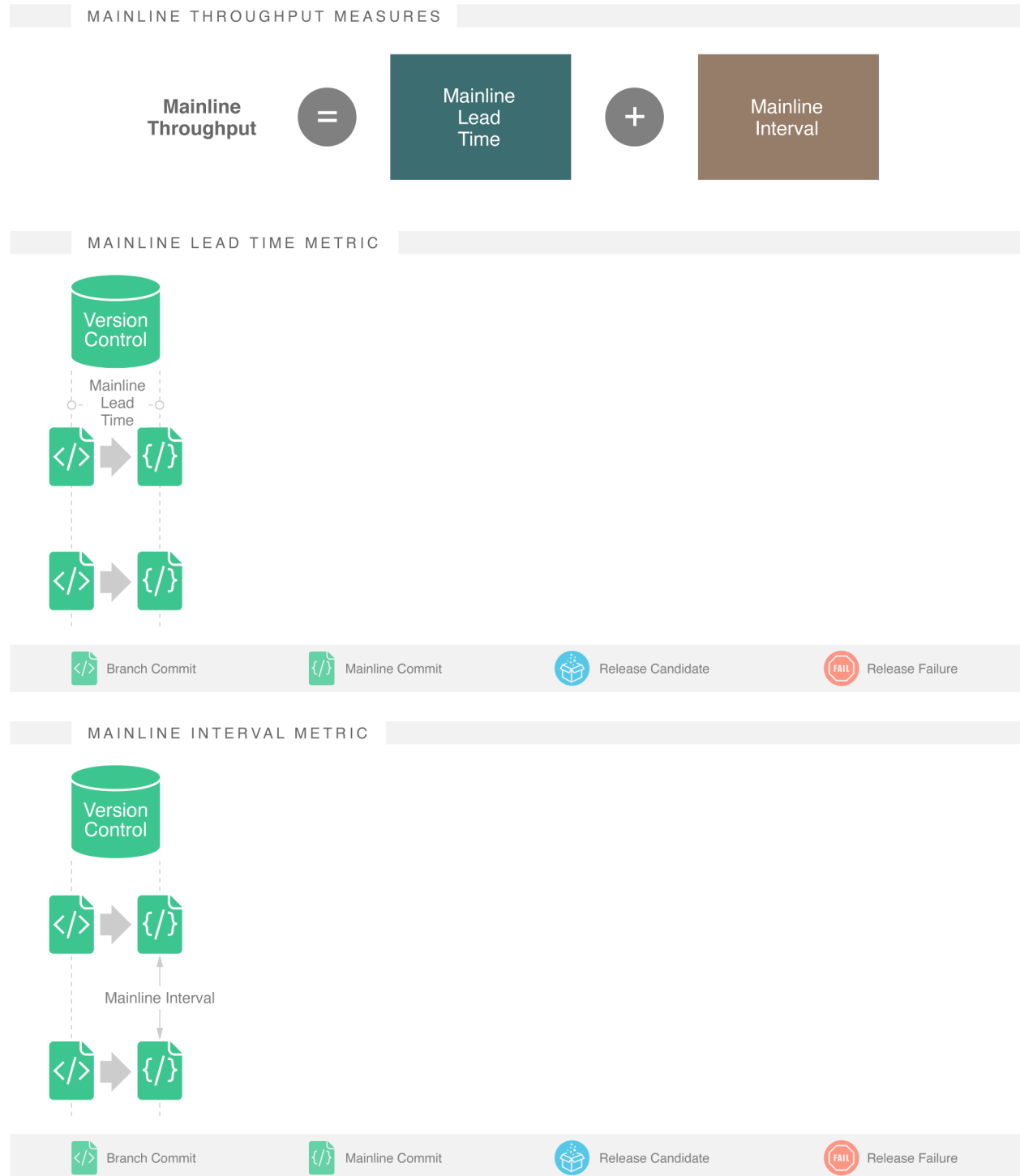





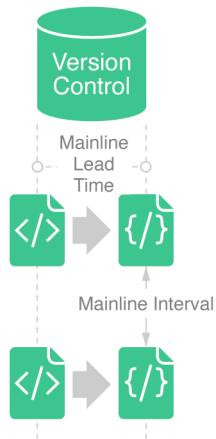








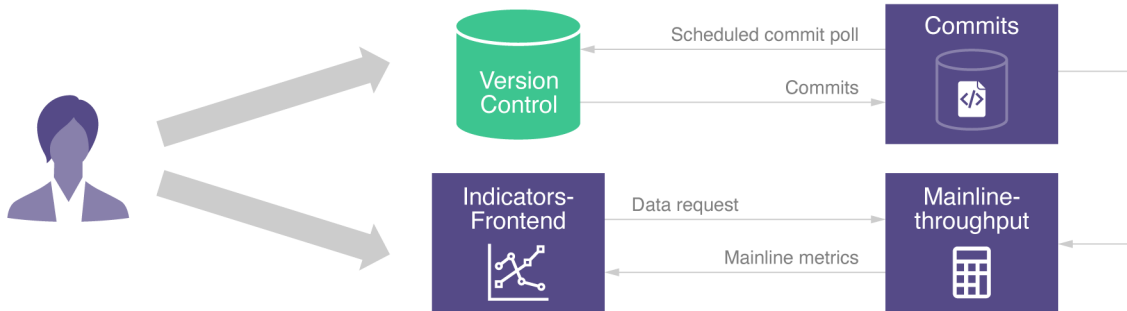

7. The Mainline Throughput Indicator



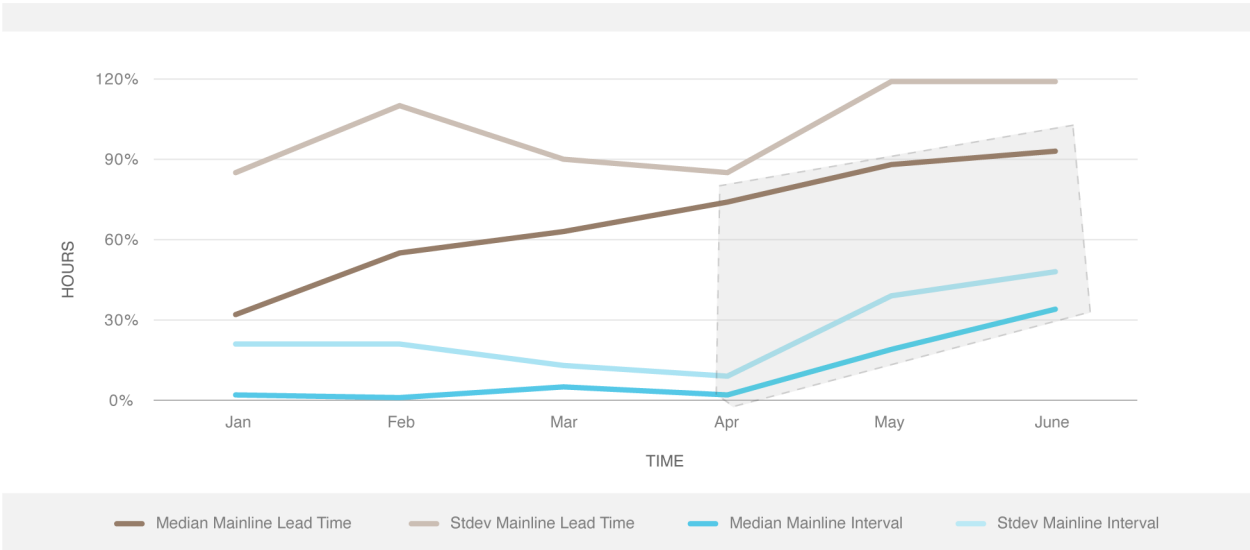
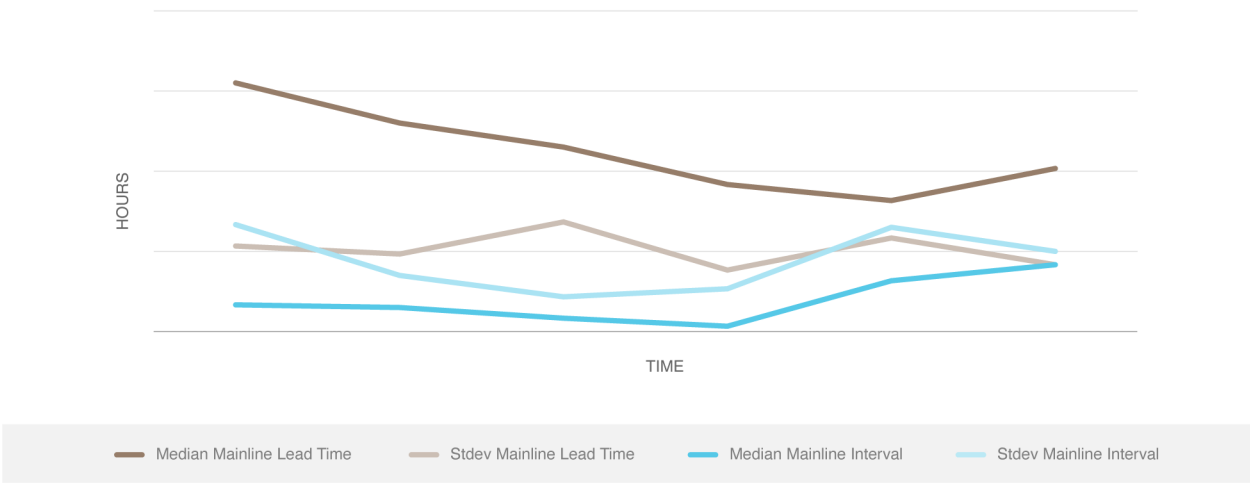
MAINLINE THROUGHPUT METRICS

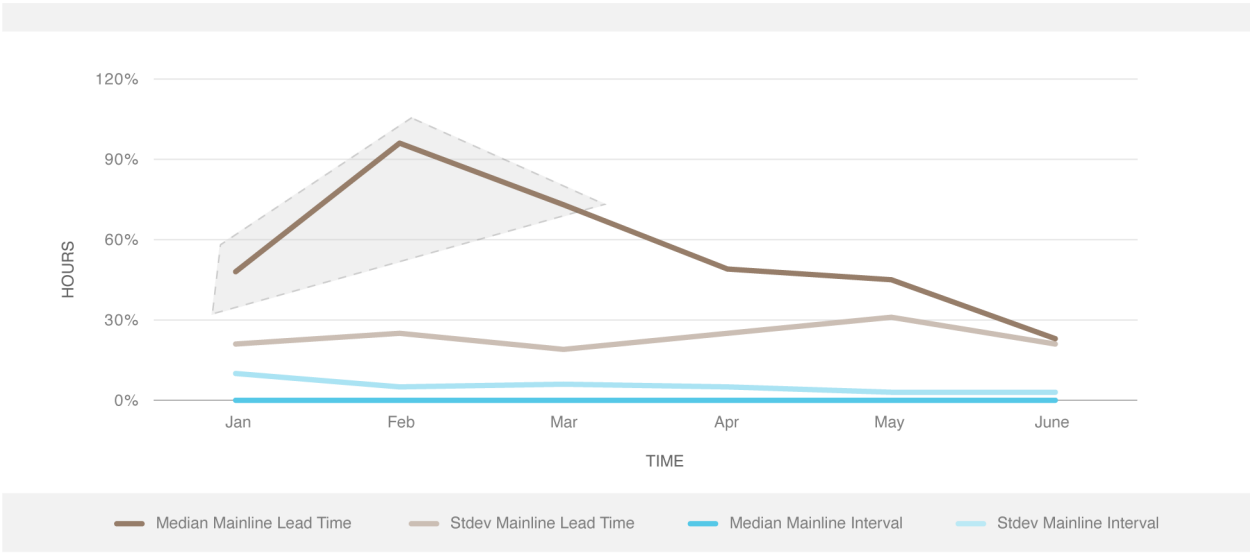
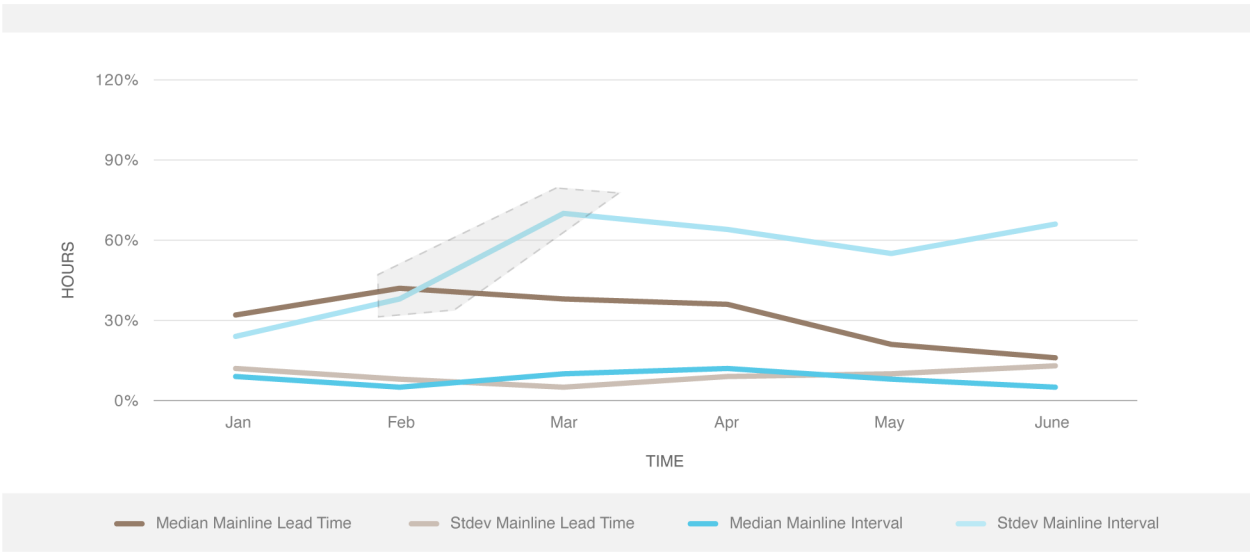
 Branch Commit Mainline Commit Release Candidate Release Failure

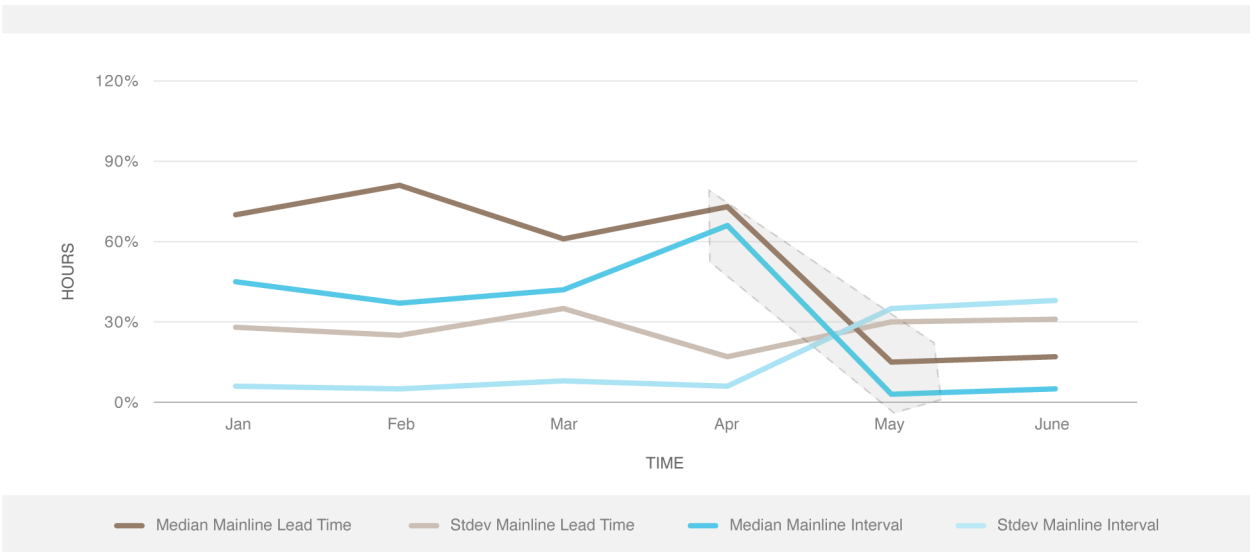
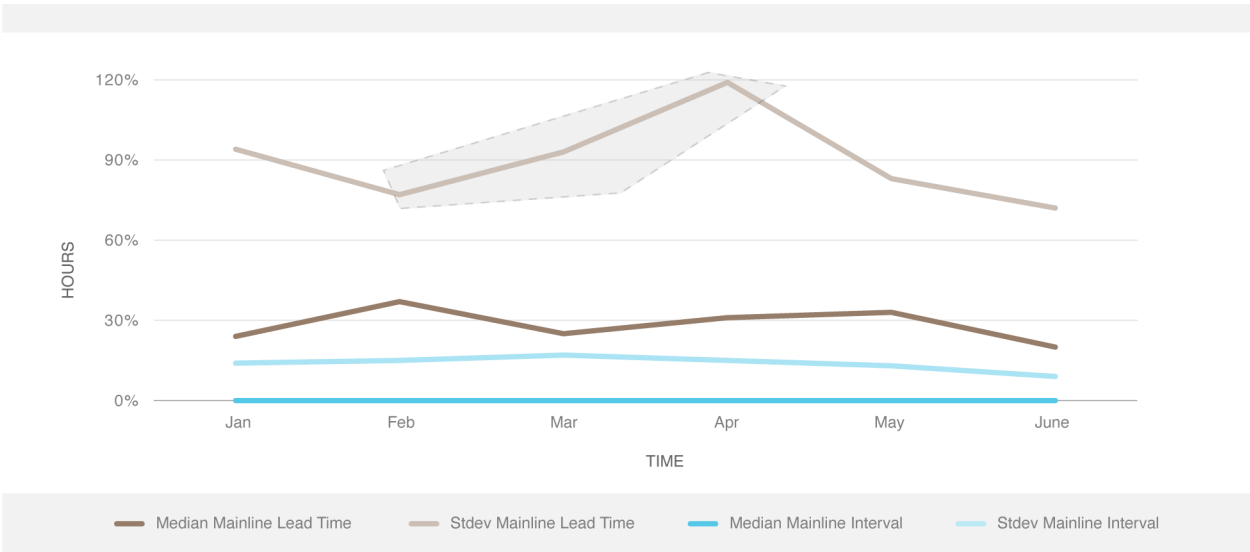
MAINLINE THROUGHPUT ARCHITECTURE

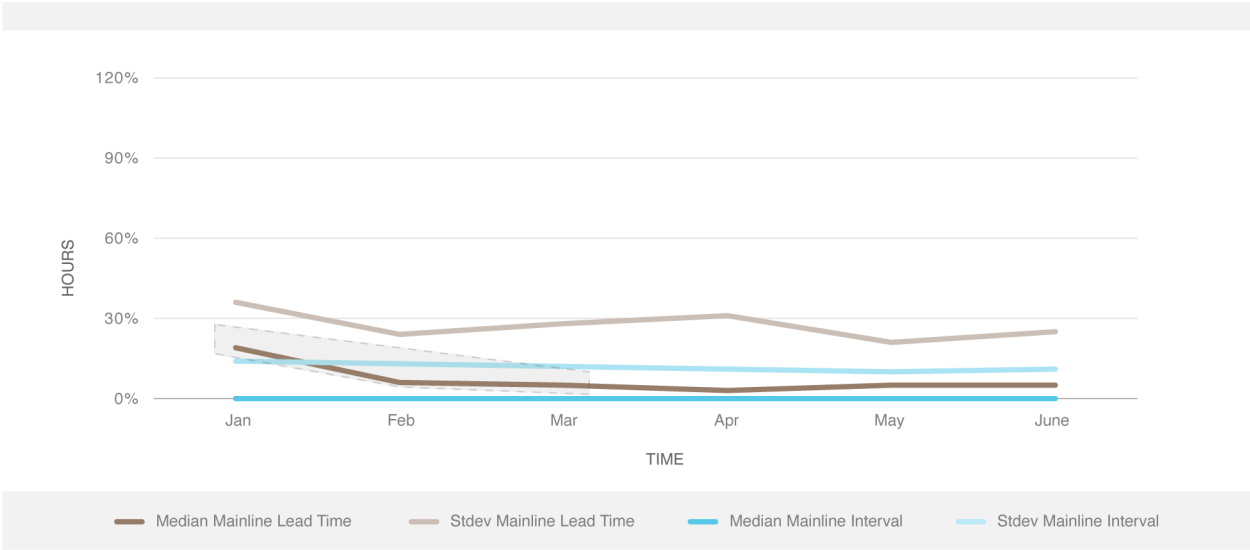
 Frontend Data Mainline Commit

A MAINLINE THROUGHPUT INDICATOR

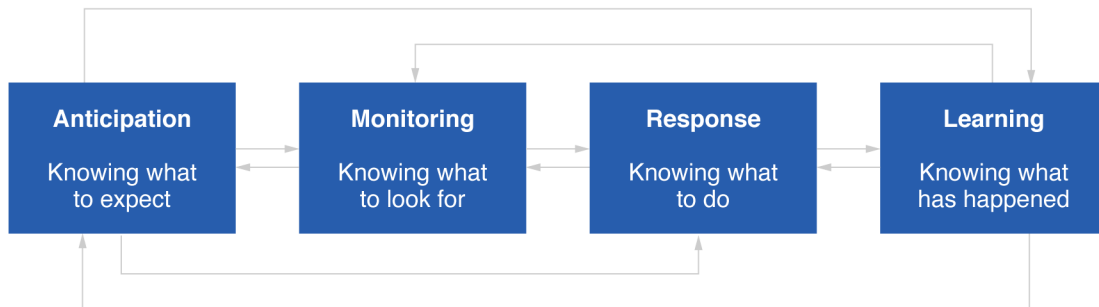




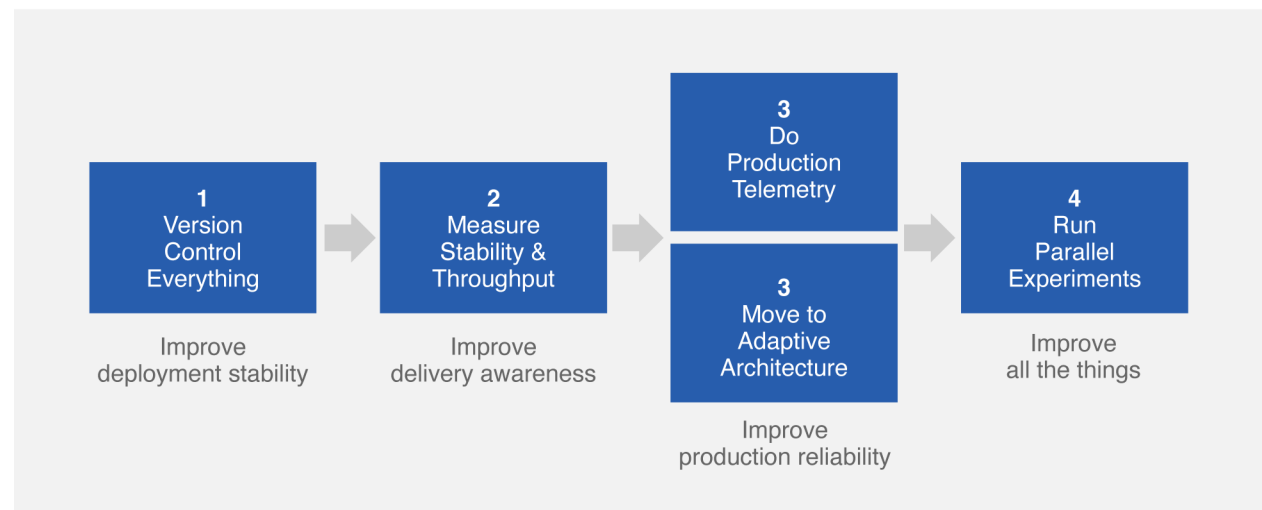




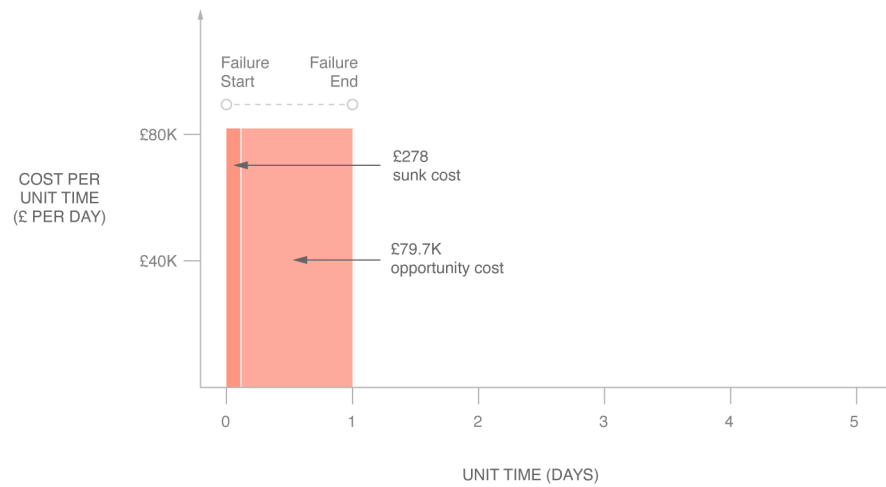
THE CORNERSTONES OF RESILIENCE ENGINEERING



BOOTSTRAPPING CONTINUOUS DELIVERY

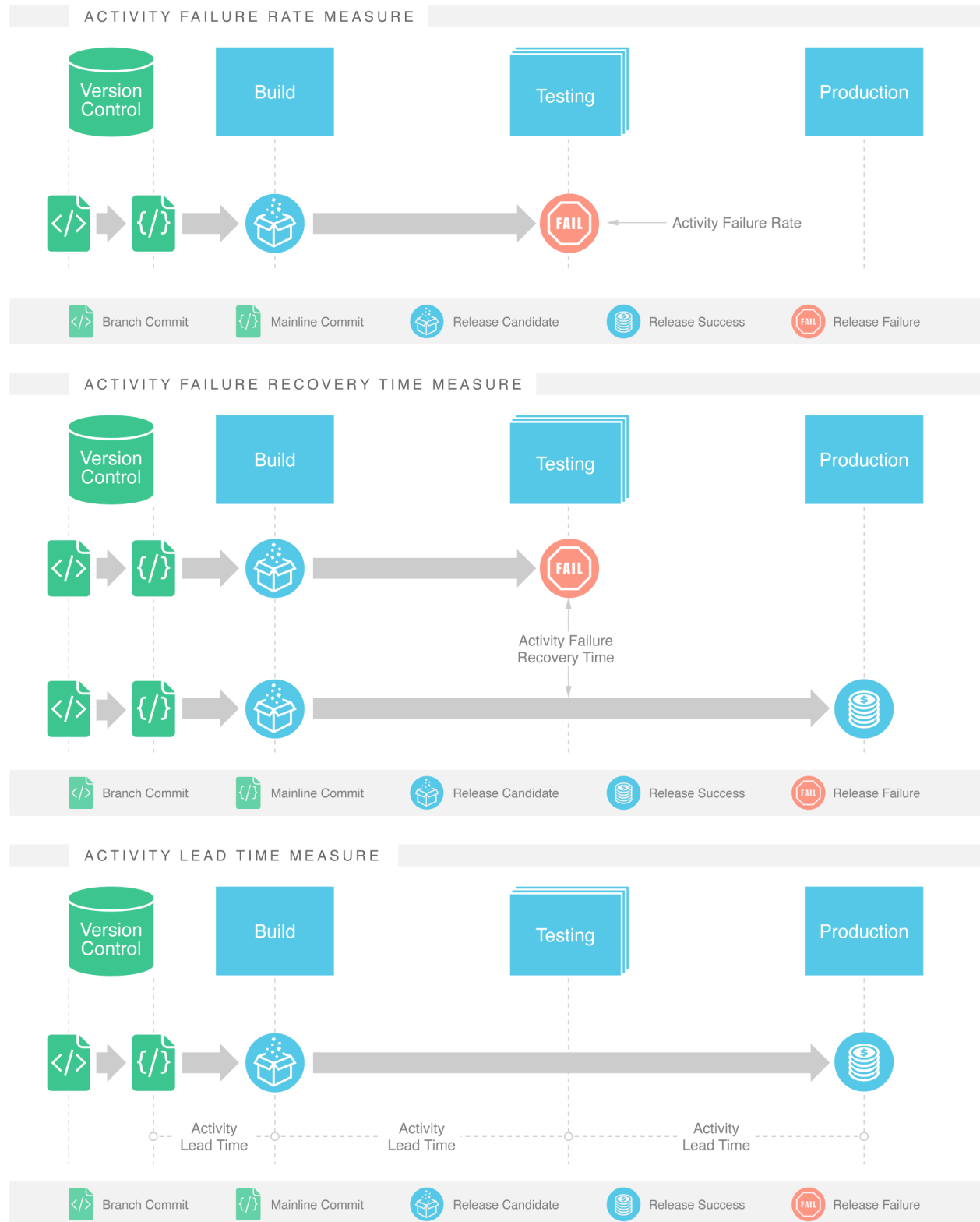


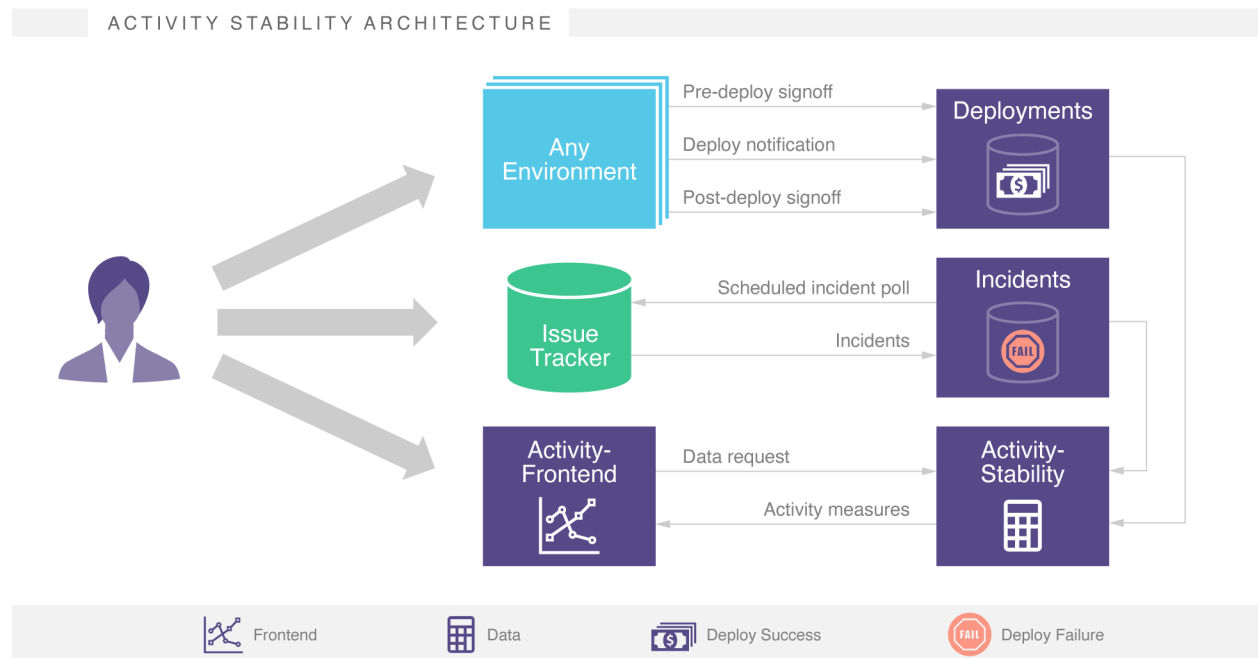
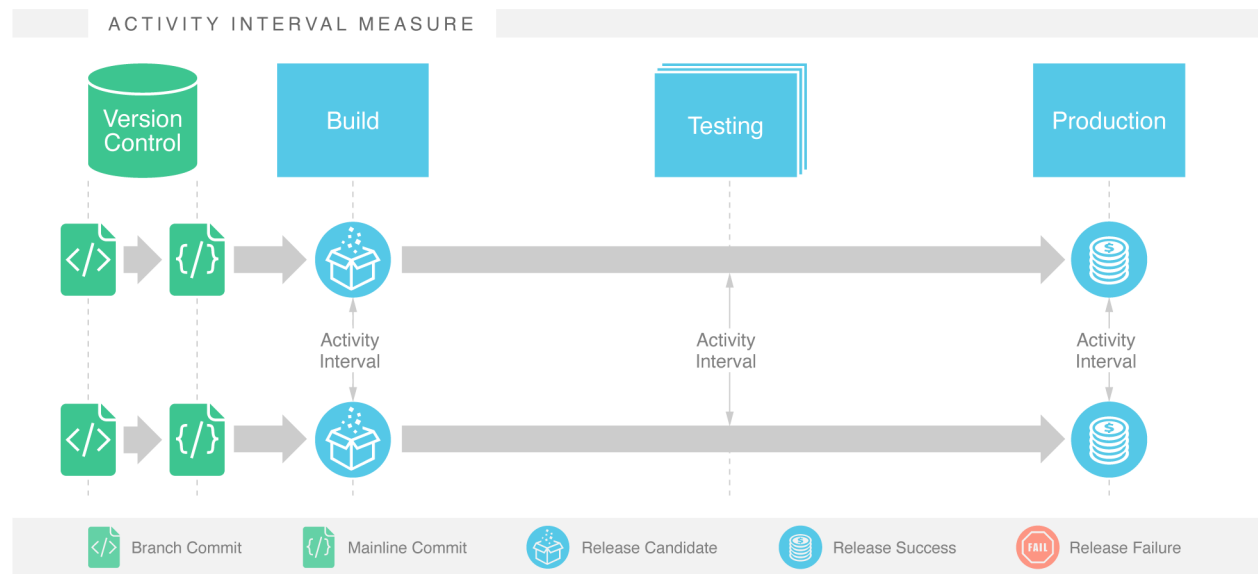
TOYVILLE — FAILURE COST REDUX



ACTIVITY STABILITY AND THROUGHPUT MEASURES

**Activity
Stability****=****Activity
Failure
Rate****+****Activity
Failure
Recovery
Time****Activity
Throughput****=****Activity
Lead
Time****+****Activity
Interval**





ACTIVITY THROUGHPUT ARCHITECTURE



Frontend



Data

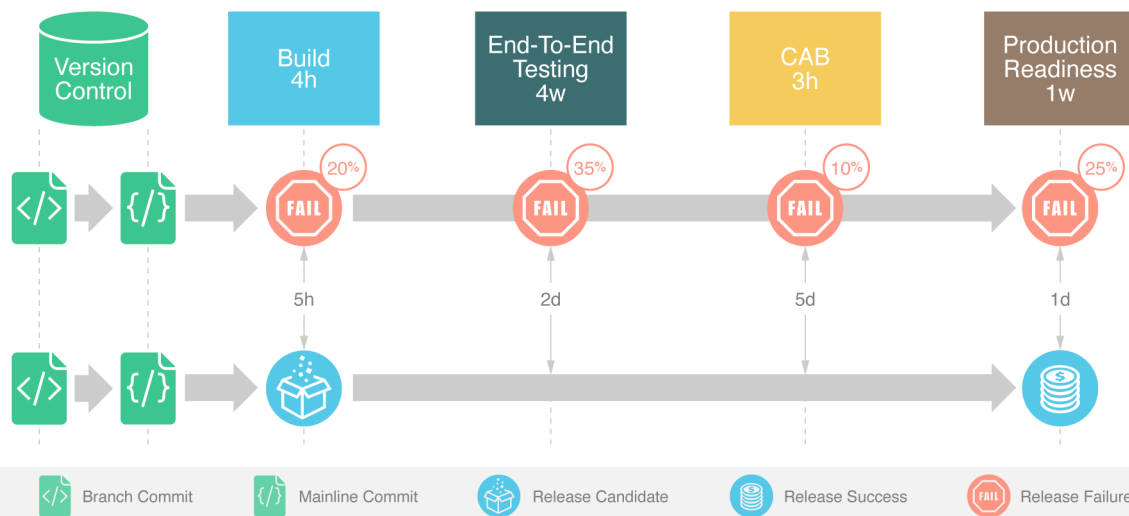


Release Candidate

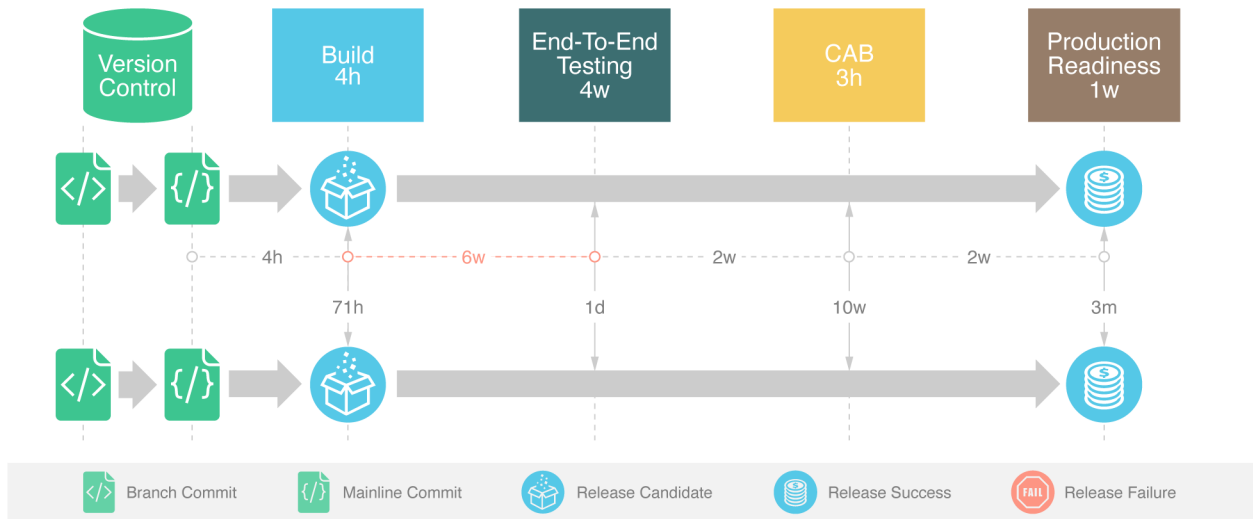


Deploy Success

TOYVILLE — ACTIVITY STABILITY



TOYVILLE — ACTIVITY THROUGHPUT



PLAN-DO-CHECK-ACT-CYCLE



TOYVILLE — ACTIVITY STABILITY AFTER FIRST IMPROVEMENT CYCLE

